NEC

DeploymentManager Ver6.1

Installation Guide

-First Edition-

Rev.001

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Introduction

Target Audience and Purpose

This "Installation Guide" is intended for system administrators who perform DPM installation, upgrade installation, uninstallation, and initial setup, and explains each method.

Document Structure

1 Before Installing DPM: Carefully read this section prior to installation.
2 Installing DPM: This section describes how to install DPM.
3 Upgrading DPM: This section describes how to upgrade DPM.
4 Uninstalling DPM: This section describes how to uninstall DPM.
5 Preparing for DeploymentManager Operation: This section describes how to configure the initial setup for DPM.

Appendices
Appendix A Silent Installation
Appendix B Setting Up the Package Web Server
Appendix C NFS Server Configuration
Appendix D Upgrading the Database
Appendix E Using DPM Server and MasterScope Network Manager on the same machine
Appendix F Revision History

DeploymentManager Manual Organization

DPM manuals are structured as described below.
The name of each manual is described in this manual according to the "Name in this Manual".

Name of Manual	Name in this Manual	Role of Manual
DeploymentManager Ver6.1 First Step Guide	First Step Guide	Intended for DPM users. Provides a product overview, and describes the various functions, system design methods, operating environment, etc.
DeploymentManager Ver6.1 Installation Guide	Installation Guide	Intended for system administrators who install DPM. Describes tasks such as how to install, upgrade, and uninstall DPM.
DeploymentManager Ver6.1 Operation Guide	Operation Guide	Intended for system administrators who operate DPM. Describes the operation environment setup procedure as well as the various operations performed when operating the program based on an actual operation flow.
DeploymentManager Ver6.1 Reference Guide	Reference Guide	Intended for system administrators who operate DPM. Describes DPM screen operations, tools, maintenance-related information, and troubleshooting. This guide is a supplement to the Installation Guide and the Operation Guide.

The latest information of DPM can be obtained from the following product site:
http://www.nec.com/masterscope/deploymentmanager/index.html

The Reference Guide is not included in the install media, and is only available on the product site.

Documentation Guidelines

The following describes important points regarding the notation used in this manual.

- The notation used for DPM products is as follows:

Notation in this Manual	Product Name
DPM unbundled product	DeploymentManager Ver6.1
SSC product	DeploymentManager Ver6.1 for SSC(*1)

*1
This is a product that is bundled with SigmaSystemCenter and VirtualPCCenter.

- The screen images in this manual are based on the DPM unbundled product. The license related displays are only for the DPM unbundled product. They are not displayed for SSC products.

- Product versions are expressed as follows.
  Common description for DPM Ver6.1: DPM Ver6.1
  Specific description for DPM Ver6.1x: DPM Ver6.1**x**
  * **x** means revision number.

- The install media included with the DPM product is called "Install media" in this manual.

- 32bit OS is described as "x86" in this manual and 64bit OS is described as "x64".

- In Windows OS, the folder path in which DPM is installed or the registry key is displayed by those of x86. When you use x64, replace as the followings if there is not disclaimer.
  DPM install folder
  - (x86):C:\Program Files\NEC\DeploymentManager
  - (x64):C:\Program Files (x86)\NEC\DeploymentManager

  - (x86):C:\Windows\system32
  - (x64):C:\Windows\SysWOW64

  Registry key
  - (x86):HKEY_LOCAL_MACHINE\SOFTWARE\NEC\DeploymentManager
  - (x64):HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\NEC\DeploymentManager

- The description of SQL Server mentioned in this manual is based on SQL Server 2008 R2 SP1 Express that is included in the install media. Replace it when you use the product except SQL Server 2008 R2 SP1 Express.
  Example)
  DPM database path
  ·For SQL Server 2008 R2 SP1 Express x86:
  C:\Program Files\Microsoft SQL Server\MSSQL10_50.DPMDBI\MSSQL\Binn
  ·For SQL Server 2005 Express Edition x86:
  C:\Program Files\Microsoft SQL Server\MSSQL.x\MSSQL\Binn

- The meaning of each icon used in this manual is as follows:

Icon	Explanation
Important	Important items. These are items you need to be careful when you operate DPM not depending on the using environment.
Note	Cautionary items. These are items you need to be careful in the specific environment or operations.
Tips	Supplementary items. These are informations to use DPM more conveniently.

- The displays and procedures of DPM may differ according to the operating system used. In the case of Windows OS, this document is based on Windows Server 2008 and Windows 7, in principle. Replace when you use DPM on the OS except Windows Server 2008 and Windows 7. (There are some descriptions based on the OS except Windows Server 2008 and Windows 7.)
  Example)
  The procedure for checking the DPM version differs by operating system as follows:
  ・For Windows Server 2008:
  1) From the **Start** menu, click **Control Panel** -> **Programs and Features**.
  2) Select **View** -> **Choose details**.
  3) On the **Choose Details** screen, select the **Version** check box and click the **OK** button.
  ・For Windows 7:
  1) From the **Start** menu, click **Control Panel** -> **Programs and Features**.
  2) Right-click **Name** that appears in the center of your screen, and select **More**.
  3) On the **Choose Details** screen, select the **Version** check box and click the **OK** button.
  ・For an OS other than the above
  1) From the **Start** menu, click **Control Panel** -> **Add or Remove Programs**. (or **Add/Remove Programs**)
  2) Select the applicable component, and click **Click here for support information**.

- Windows Server 2003 R2/Windows Server 2008 R2 will not be explained, so please replace Windows Server 2003/Windows Server 2008 when you read it.

- In descriptions of screen operation procedures, arbitrary names to be specified by the user appear in bold and italics as follows: ***Scenario Group***.
  Example)
  In the tree view, click the **Resource** icon -> **Scenarios** icon -> ***Scenario Group*** icon.

- The version of JRE shown on the screen may not be the latest that DPM can use. Replace them properly.

- Please execute following procedures when **Finish DPM related tasks** appears in this document.
  ・If a scenario is running, wait until the scenario ends.
  ・If an automatic update is in progress, wait until the automatic update ends.
  ・If you are operating the Web Console or the various DPM tools, please end them.

- 1MByte is calculated as 1024KByte.
  1GByte is calculated as 1024MByte.

1. Before Installing DPM

This chapter describes how to read this manual and outlines the precautionary notes for DPM installation.

1.1. DeploymentManager Ver6.1 DVD Configuration

The DPM installer and software components are provided on the DPM Ver6.1 install media DVD as follows. The following is the DPM Ver6.1 unbundled product configuration.

DeploymentManager 6.1 DVD	
| |- dotNet Framework35 SP1 |	.NET Framework 3.5 Service Pack 1 re-distributable package
| |- License |	Product license for the OSS module bundled with the product
| |- Linux |	Linux related module
| |- MANUAL |	User's guide
| |- Setup |	Setup module
| L TOOLS	Tools
Autorun.inf autorun.exe Launch.exe	Launcher execution module

1.2. Check and Set the Installation Environment

This section describes the procedure for DPM unbundled product. Some parts of this procedure will vary from those for SSC product. For SSC product, see *SigmaSystemCenter Installation Guide* as well.
Before installing DPM, check and set up the following.

Item	When Checking Is Required	Reference
Check system configuration/ operating environment	Before installing DPM	See Section 2.1, "Examining the System Configuration of DeploymentManager" in *First Step Guide.*
Set up network environment	Before installing DPM	See Section 2.2.1, "Regarding the Network Environment" in *First Step Guide.*
Installing Internet Information Services (IIS)	When IIS is not installed on the Management Server	See Section 1.2.1, "Installing Internet Information Services (IIS)" in this manual.
Setting Up the DHCP Server	When operation employs the DHCP server	See Section 1.2.2, "Setting Up the DHCP Server" in this manual.
Set the Package Web Server	When the package is centrally managed across multiple Management Servers	See Appendix B, "Setting Up the Package Web Server" in this manual.
Setting Up Multicast Protocol	In the following case: ·When multicast protocol is used and ·When a managed machine of multiple subnets beyond the router is managed and software-routed by DPM (*)	See "Regarding managing managed machines when the Management Server exceeds the network segment" in Section 2.2.1, "Regarding the Network Environment" in *First Step Guide.*
Setting Up the DHCP Relay Agent	In the following case: ·When operation employs the DHCP server and ·When a managed machine of multiple subnets beyond the router is managed and software-routed by DPM (*)	See "Regarding managing managed machines when the Management Server exceeds the network segment" in Section 2.2.1, "Regarding the Network Environment" in *First Step Guide.*
NFS Server Configuration	When the OS clear installation (Linux) function is used	See Appendix C, "NFS Server Configuration" in this manual.

*For setup when routing is performed using hardware devices (routers or switches), see the manuals of the respective devices.

1.2.1. Installing Internet Information Services (IIS)

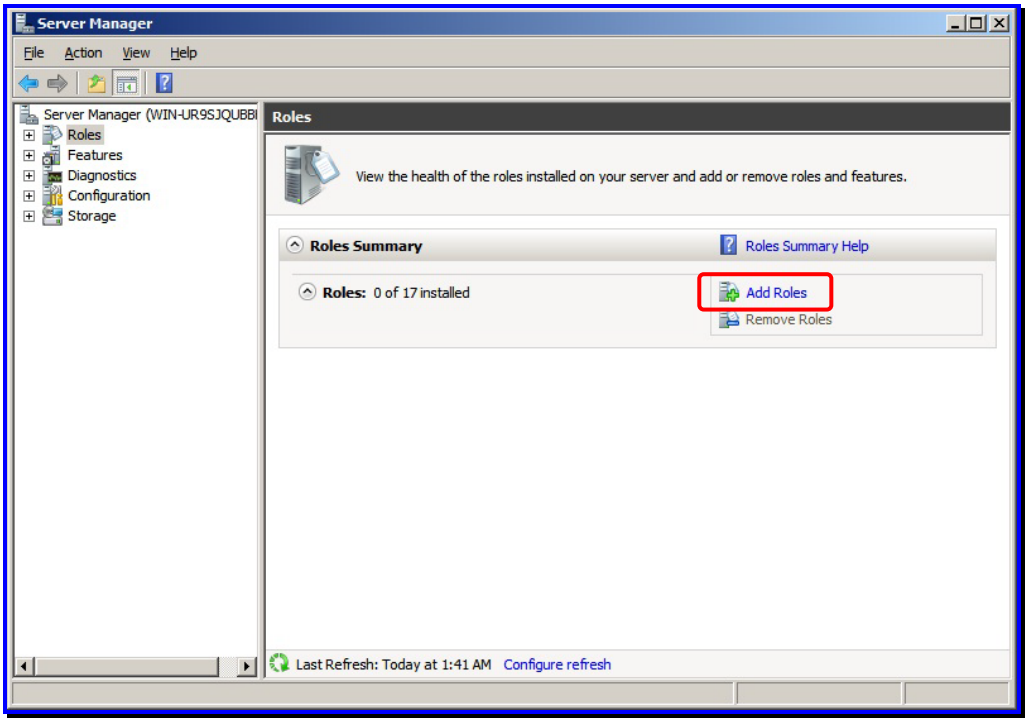
The installation procedure of IIS7.0 (Windows Server 2008)/IIS7.5 (Windows Server 2008 R2) is described.

Note

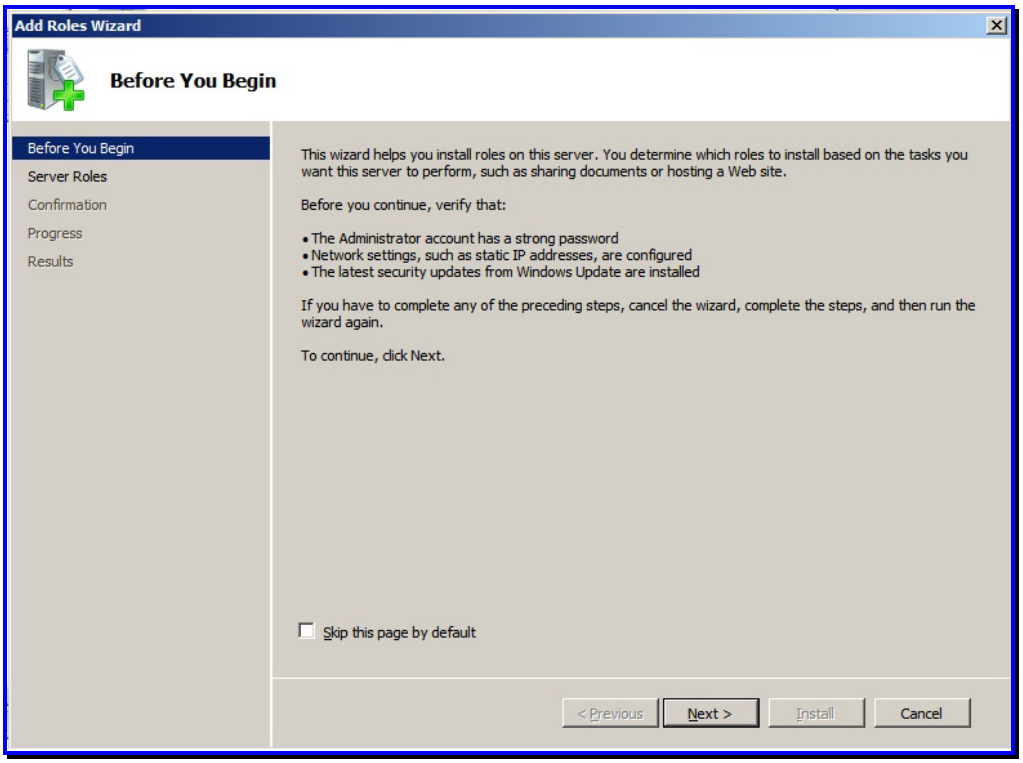
If **Web Server (IIS)** is already installed, please confirm whether **Static Content**, **ASP.NET** and **IIS 6 Metabase Compatibility** are installed by selecting **Role Service** in **Web Server (IIS)**. Please install the components that are not installed if there is not at least one installed.

(1) From the **Start** menu, select **Administrative Tools** -> **Server Manager**.

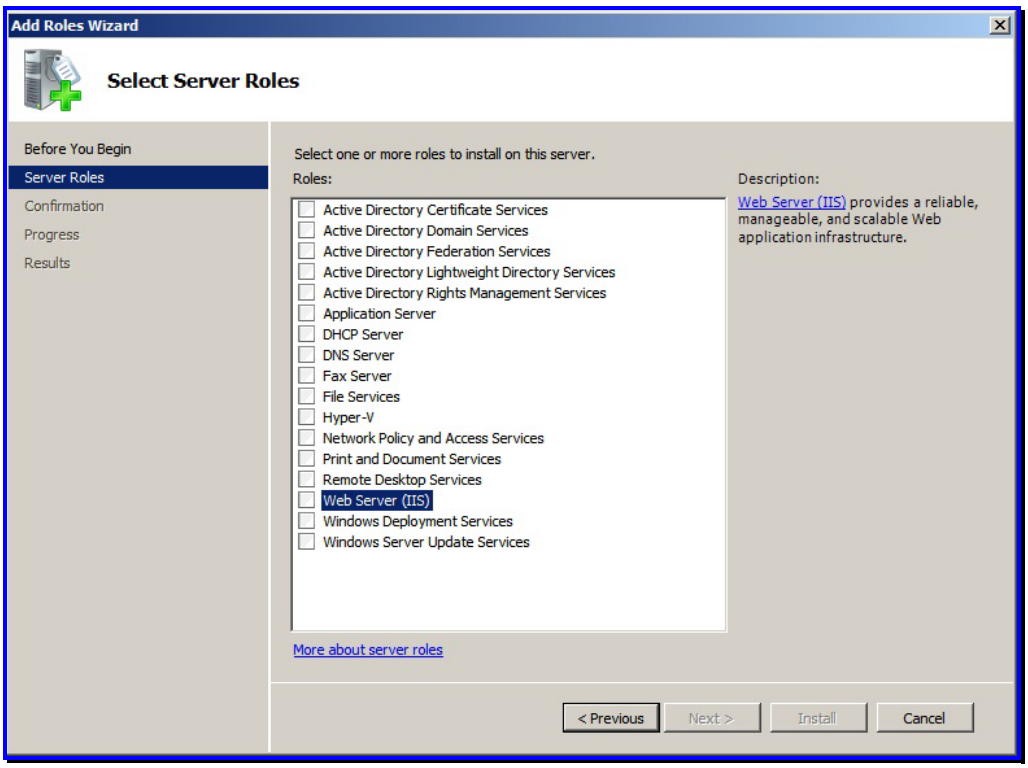
(2) The **Server Manager** screen appears. Select **Roles** on the left-hand pane, and then click **Add Roles** on the right-hand pane.



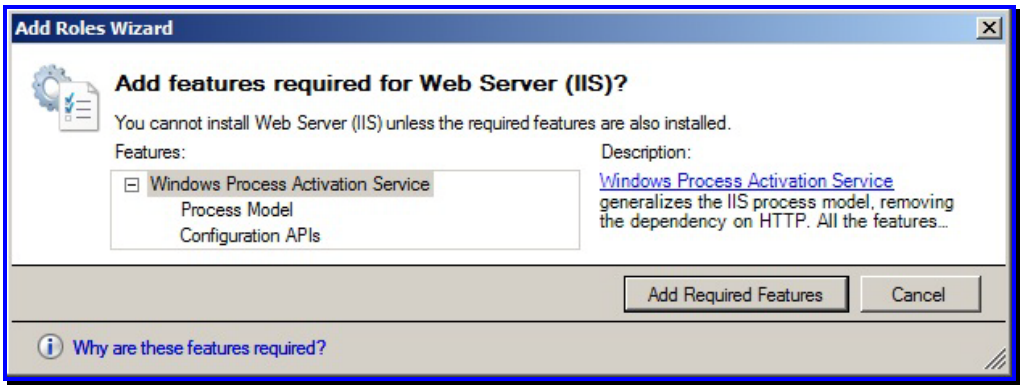
(3) The **Add Roles Wizard** appears. Click the **Next** button.


Add Roles Wizard
Before You Begin
Before You Begin
Server Roles
Confirmation
Progress
Results
This wizard helps you install roles on this server. You determine which roles to install based on the tasks you want this server to perform, such as sharing documents or hosting a Web site.
Before you continue, verify that:
• The Administrator account has a strong password
• Network settings, such as static IP addresses, are configured
• The latest security updates from Windows Update are installed
If you have to complete any of the preceding steps, cancel the wizard, complete the steps, and then run the wizard again.
To continue, click Next.
Skip this page by default
< Previous
Next >
Install
Cancel

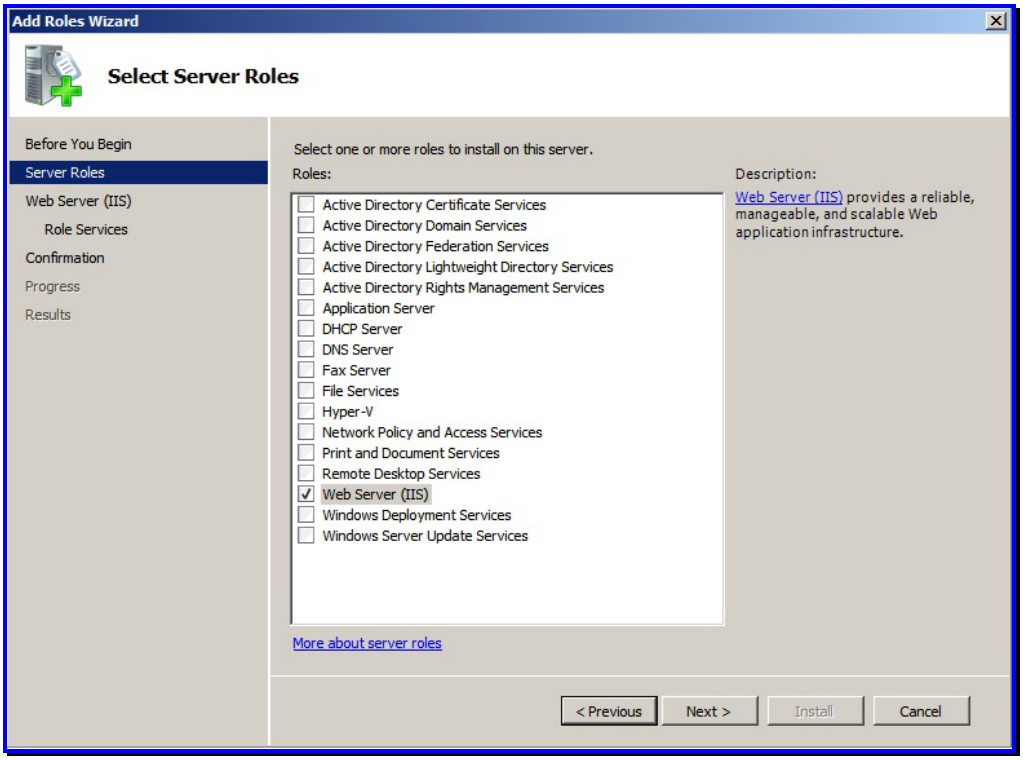
(4) The **Select Server Roles** screen appears. Select **Web Server (IIS)**.



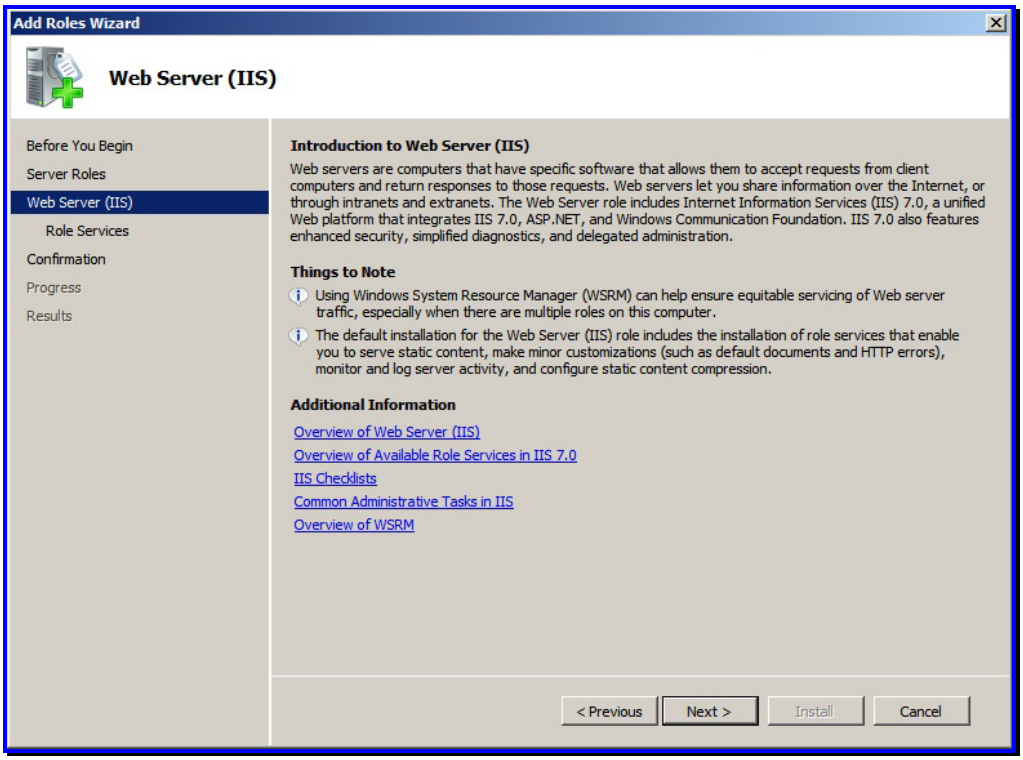
(5) The following screen appears. Click the **Add Required Features** button.


Add Roles Wizard
Add features required for Web Server (IIS)?
You cannot install Web Server (IIS) unless the required features are also installed.
Features:
Windows Process Activation Service
Process Model
Configuration APIs
Description:
Windows Process Activation Service generalizes the IIS process model, removing the dependency on HTTP. All the features...
Add Required Features
Cancel
Why are these features required?

(6) The screen returns to the **Select Server Roles** screen. Click the **Next** button.

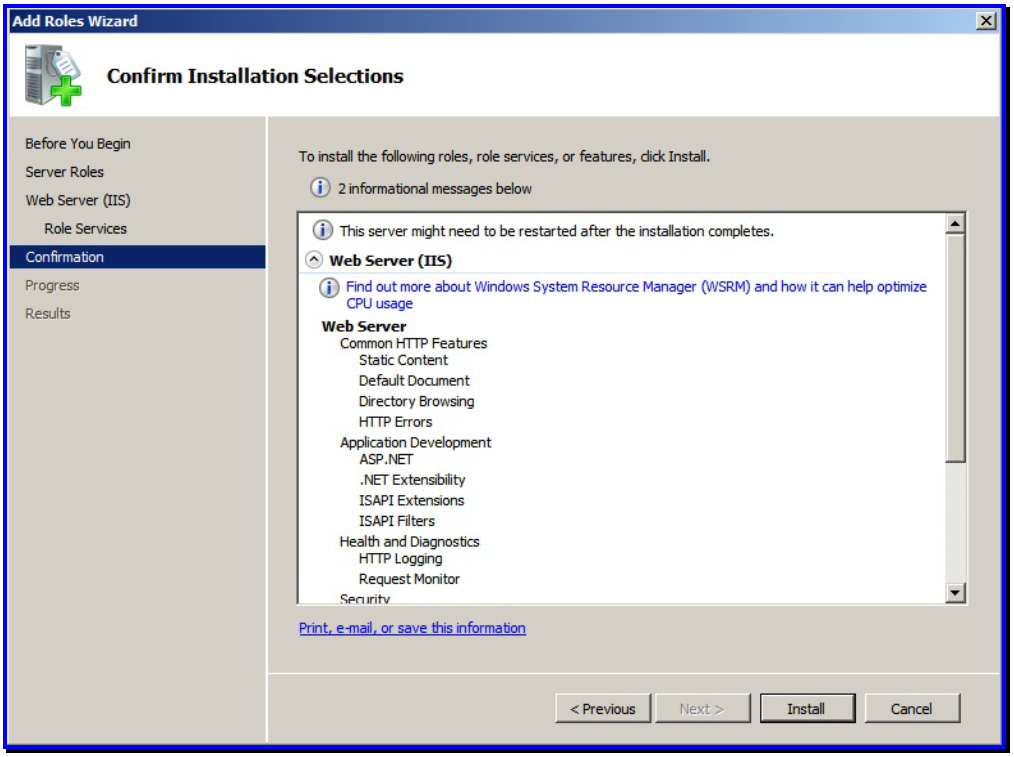


(7) On the **Web Server (IIS)** screen, click the **Next** button.

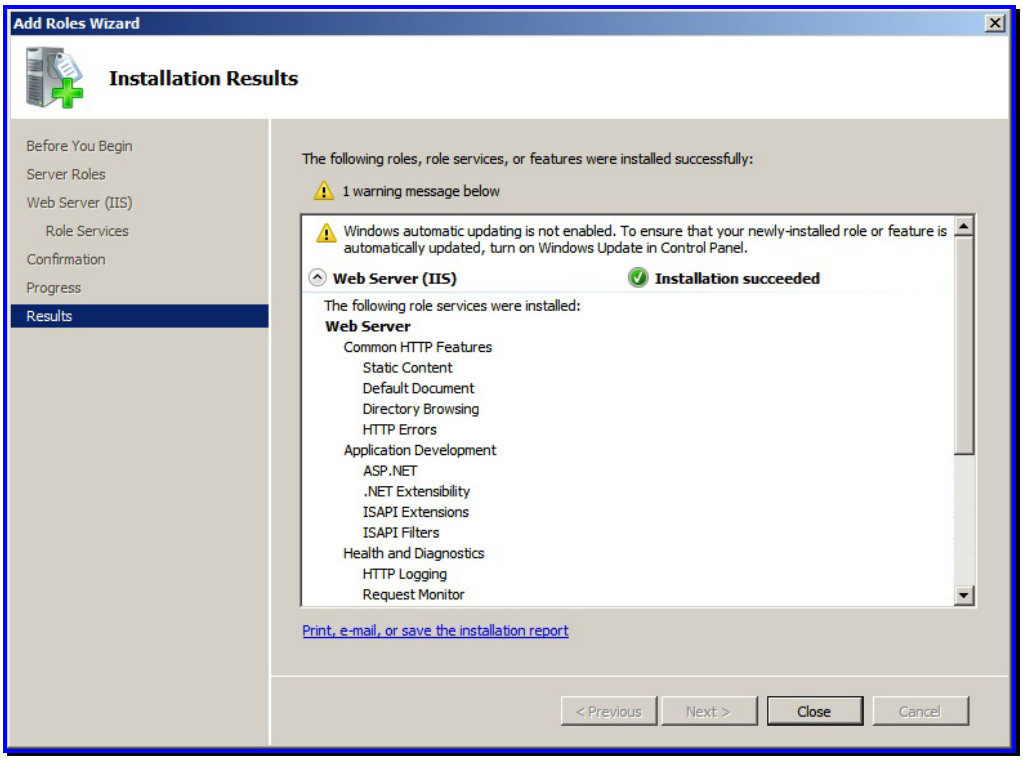

Add Roles Wizard
Web Server (IIS)
Before You Begin
Server Roles
Web Server (IIS)
Role Services
Confirmation
Progress
Results
Introduction to Web Server (IIS)
Web servers are computers that have specific software that allows them to accept requests from client computers and return responses to those requests. Web servers let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 7.0, a unified Web platform that integrates IIS 7.0, ASP.NET, and Windows Communication Foundation. IIS 7.0 also features enhanced security, simplified diagnostics, and delegated administration.
Things to Note
Using Windows System Resource Manager (WSRM) can help ensure equitable servicing of Web server traffic, especially when there are multiple roles on this computer.
The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression.
Additional Information
Overview of Web Server (IIS)
Overview of Available Role Services in IIS 7.0
IIS Checklists
Common Administrative Tasks in IIS
Overview of WSRM
< Previous
Next >
Install
Cancel

(8) On the **Select Role Services** screen, check **Static Content, ASP.NET** and **IIS6 Metabase Compatibility** and click the **Next** button.

(9) On the **Confirm Installation Selections** screen, click the **Install** button.



(10) On the **Installation Results** screen, check the installation details and click the **Close** button.



1.2.2. Setting Up the DHCP Server

The following describes how to install a DHCP server.
The following describes an example of how to set up a DHCP server on Windows Server 2008.

<DHCP (Dynamic Host Configuration Protocol) Installation Procedure>
If a DHCP server is not installed, install the DHCP service following the procedure below.

(1) From the **Start** menu, select **Administrative Tools** -> **Server Manager**.

(2) The **Server Manager** screen appears. Select **Roles** on the left-hand pane, and then click **Add Roles** on the right-hand pane.

(3) The **Add Roles Wizard** appears. Click the **Next** button.

(4) The **Select Server Roles** screen appears. Select **DHCP Server**.

(5) Select **Network Connection Bindings** and **DHCP Scopes** on the left-hand pane, and set up according to your operating environment.

Tips

Prepare IP addresses in an amount equivalent to the number of machines managed by DPM. If machines other than those managed by DPM obtain IP addresses from the DHCP, please ensure that there are a sufficient number of IP addresses. Scenarios may not run normally if there are insufficient IP addresses.

(6) Select **Confirmation** on the left-hand pane.

(7) On the **Confirm Installation Selections** screen, click the **Install** button.

(8) On the **Installation Results** screen, check the installation details and click the **Close** button.

The DHCP server is set up.

<DHCP Server Construction Precautions>
If you want to construct the DHCP server using a server other than the DHCP server with Windows OS as standard, note the following:

Use of fixed addresses
When the DHCP server is constructed using Linux, for example, you may need to specify a fixed address in /etc/dhcpd.conf.
A fixed address refers to a mechanism wherein the MAC address of the managed machine and the IP address to be leased are combined and registered in the DHCP server in advance, and the DHCP server leases the fixed IP address in response to an address request from the managed machine.
If there is no description of the fixed address, a response delay from the DHCP server may occur. In that case, the PXE boot (network boot) will fail and DPM may not behave properly due to the affect.
For UNIX operating systems other than Linux, a fixed address may be similarly required.

The following shows an example of /etc/dhcpd.conf in a case where a fixed address (192.168.0.32) is specified for the MAC address (12:34:56:78:9A:BC) host.

```
subnet 192.168.0.0 netmask 255.255.255.0 {
        ...
        ...
        host computer-name {
        hardware ethernet 12:34:56:78:9A:BC;
        fixed-address 192.168.0.32;
        }
```

}

Note

You cannot install or use DHCP server software manufactured by a third party on the same device.
If you want to install the software on another device, confirm in advance whether or not the DHCP server software can properly lease an IP address in response to a network boot (PXE boot).

2. Installing DPM

This chapter describes how to install DPM by standard/custom installation.

2.1. Installing the DPM Server

DPM Server is the component that is installed on the Management Server. When the DPM server is installed, Image Builder and DPM Command Line are also simultaneously installed.

During DPM Server installation, note the following:

- When "DPM Server" is installed via standard installation, "JRE 1.6.0_32", ".NET Framework 3.5 SP1", and "DPM Server" are installed.

Note

- With Windows Server 2008 R2, install .NET Framework 3.5.1 as following steps without the install media. Installing .NET Framework 3.5.1 using the add features function of the operating system (**Start** -> **Administrative Tools** -> **Server Manager**) eliminates the need to install .NET Framework 3.5 Service Pack 1.
- Do not change the Web Site name on IIS except to the following name.
  - Default Web Site
  - WebRDP

  In all other cases, an error occurs, and installation will be aborted.
- If .NET Framework 3.5.1 is already installed, install JRE and the DPM Server by custom installation. See Section 2.1.2, "Installing the DPM Server by Custom Installation."
- For IIS 7.0/7.5, click **Add Role Services** in **Web Server (IIS)**, please confirm whether **Static Content**, **ASP.NET** and **IIS 6 Management Compatibility** are installed with **Role Service**. Please install the components that are not installed if there is not at least one installed.
- When DPM Server is installed, SQL Server 2008 R2 SP1 Express and database files will be installed.
  When the database (DPMDBI Instance) is already installed, the bundled product (SQL Server 2008 R2 SP1 Express) will not be installed and only database files will be installed on existed DPMDBI Instance.
  When the DPMDBI Instance is not installed, even if SQL Server except the bundled product (SQL Server 2008 R2 SP1 Express) is already installed, SQL Server 2008 R2 SP1 Express will be newly installed and DPMDBI Instance will be created.
- When DPM Server and MasterScope Network Manager are installed on the same machine, it is necessary to set MasterScope Network Manager's Trivial File Transfer Protocol (TFTP) service to cooperate with DPM's TFTP service. Without setting this, MasterScope Network Manager's TFTP service conflicts with DPM's TFTP service, and each TFTP service might not work properly. For the setting method, see Section Appendix E, "Using DPM Server and MasterScope Network Manager on the same machine."

Log on to the machine in which the DPM Server is to be installed under Administrator authority, and verify that the required amount of disk space exists prior to installation.

Note

- Confirm that Windows Installer 4.5 or later has been installed.
  Windows Installer 4.5 is included in the install media.
  [For Windows Server 2008 (x64)]
  <Install media>:\dotNet Framework35 SP1\Windows6.0-KB942288-v2-x64.msu
  [For Windows Server 2008 (x86)]
  <Install media>:\dotNet Framework35 SP1\Windows6.0-KB942288-v2-x86.msu
  [For Windows Server 2008 R2]
  Installed by default. Installation is not required.
- Install and set up IIS in advance. For the installation and setup method, see Section 1.2.1, "Installing Internet Information Services (IIS)."
- When you install the DPM Server, Microsoft SQL Server 2008 R2 Native Client is also installed. (If Microsoft SQL Server 2008 R2 Native Client is already installed, SQL Native Client is not overwritten).

- Verify that a machine with the DPM Server installed does not exist within the network to be managed by DPM. Existence of such a machine within the same network, even if the versions are different, results in malfunction. Verify that management is not performed from a DPM Server located on a network of a different network segment.

Important

It is recommended that you set up the DHCP server in advance before DPM Server installation.

Tips

If you want to use an existing JRE/.NET Framework, see Section 2.1.2, "Installing the DPM Server by Custom Installation."

- The ODBC data source entitled "DPM" is added to the system where the DPM Server is to be installed. Do not install the DPM Server on a system where the data source entitled "DPM" is already installed by an application other than DPM.

- If there are multiple machines managed by DPM (on a scale of several thousand or more), the OS may regard connection attempts from the managed machines to the DPM Server as a SYN flood attack and disconnect communication. If connection from managed machines fails when multiple machines exist, you may be able to avoid the failure by setting up the following two registries. (Create the registries if the registries do not exist). After setup, restart the OS.

Key	HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters
Name	SynAttackProtect
Value	DWORD 0(decimal)

Key	HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters
Name	MaxUserPort
Value	DWORD 65534(decimal)

- For details of the settings during installation, see Section 2.7, "Base Information about the Management Server" in *Reference Guide*.

Tips

The port that will be used in the DPM Server can be customized in advance when installation is executed for the first time.
About the default port of DPM Server, see Appendix D, "Network Port and Protocol List" in *Reference Guide*. About the method of customizing used port, see Section 9.4, "Procedure to Change the Port Used by DPM" in *Reference Guide*.

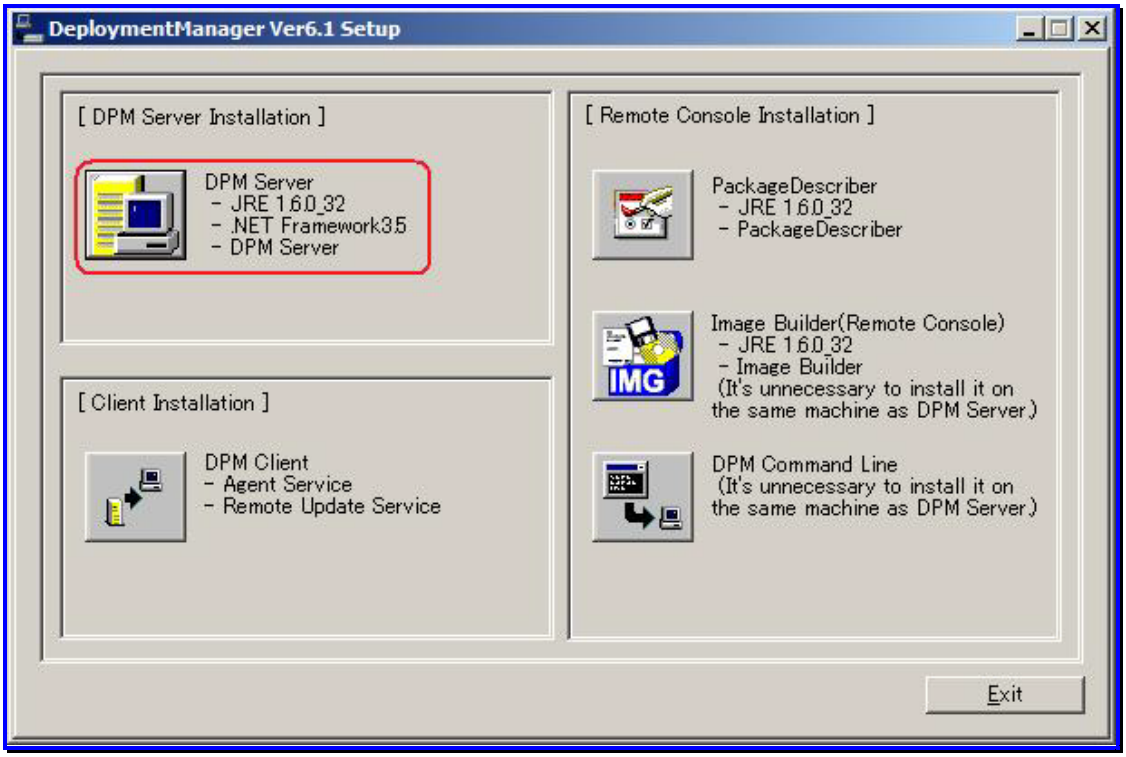
- Depending on the machine model of the managed machine, you may need to apply the module for the machine model.
  Contact your sales or support representative about whether you need to apply such a module.
  If so, first install the DPM Server, and then apply the module following the procedure provided with the module for the machine model.

2.1.1. Installing the DPM Server by Standard Installation

The following describes how to install the DPM Server by standard installation.

Log on to the machine where DPM is to be installed using a user with Administrator authority.

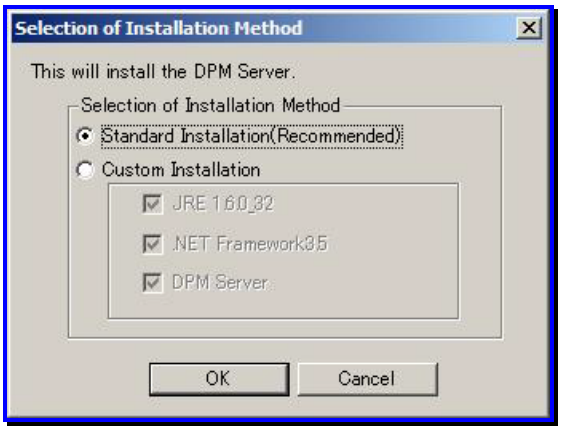
(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **DPM Server**.



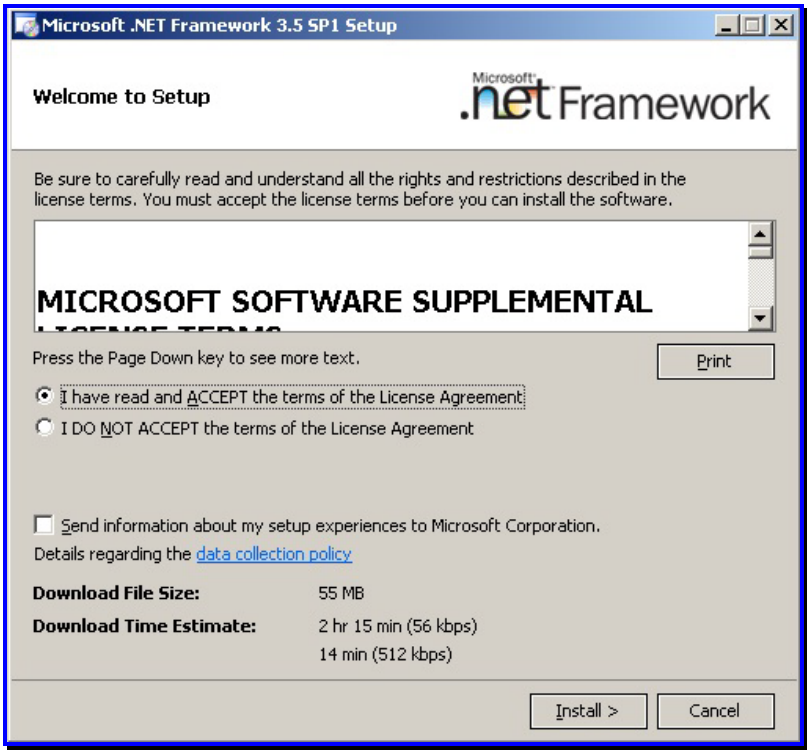
(2) The **Selection of Installation Method** screen appears. Select **Standard Installation(Recommended)** and click the **OK** button.
Clicking **Cancel** returns the screen to the **DeploymentManager Setup** screen.

Tips

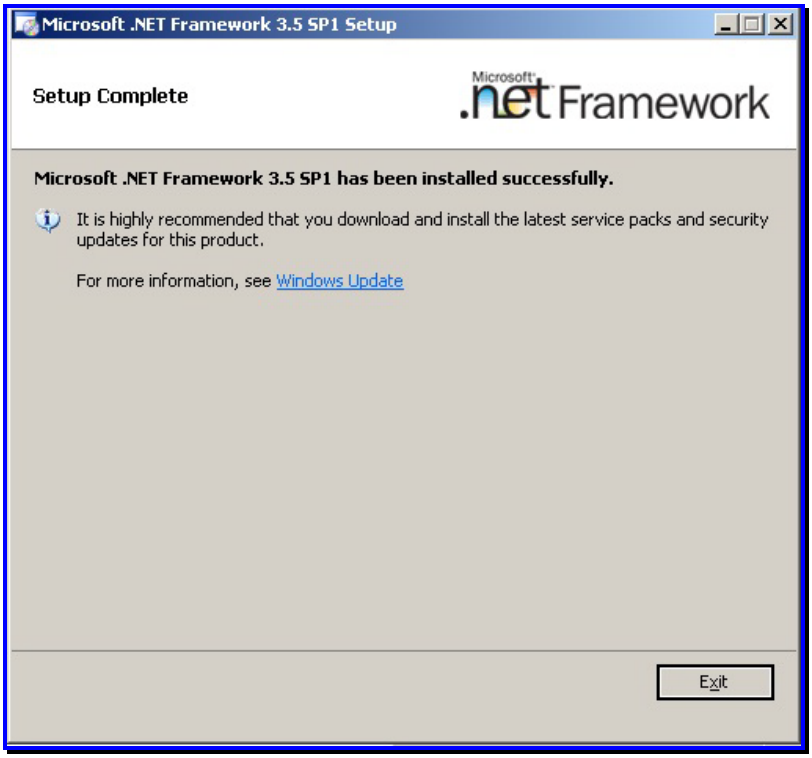
In an environment in which JRE is already installed, select **Custom Installation**, remove the checkmark from JRE, and click the **OK** button.
In an environment in which .NET Framework is already installed, select **Custom Installation**, remove the checkmark from .NET Framework, and click the **OK** button.



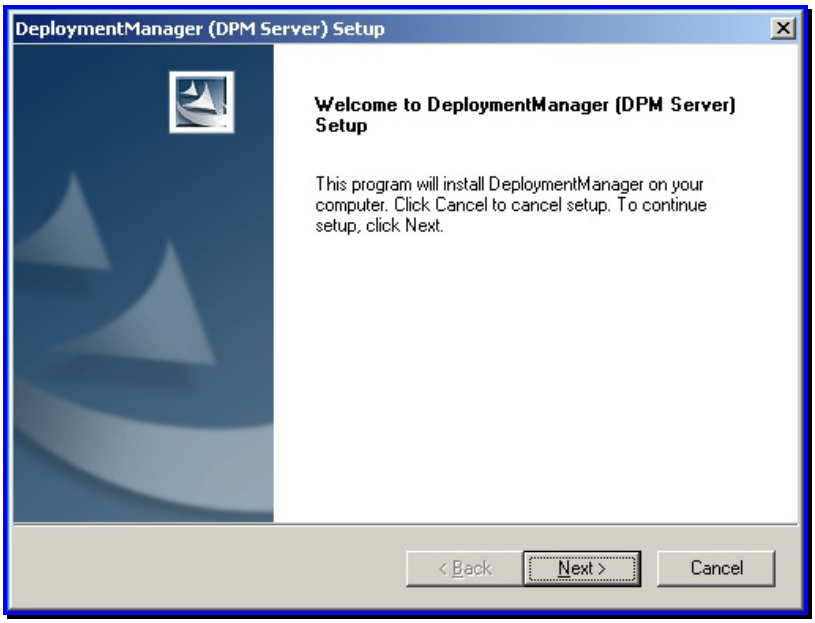
(3) Wait until the installation of JRE and .NET Framework end.
Next, the **Microsoft .NET Framework 3.5 SP1 Setup** screen appears. Check the license contents and, if you agree, select **I have read and ACCEPT the terms of the License Agreement** and click the **Install** button.


Microsoft .NET Framework 3.5 SP1 Setup
Welcome to Setup
Microsoft .net Framework
Be sure to carefully read and understand all the rights and restrictions described in the license terms. You must accept the license terms before you can install the software.
MICROSOFT SOFTWARE SUPPLEMENTAL
Press the Page Down key to see more text.
Print
I have read and ACCEPT the terms of the License Agreement
I DO NOT ACCEPT the terms of the License Agreement
Send information about my setup experiences to Microsoft Corporation.
Details regarding the data collection policy
Download File Size: 55 MB
Download Time Estimate: 2 hr 15 min (56 kbps)
14 min (512 kbps)
Install >
Cancel

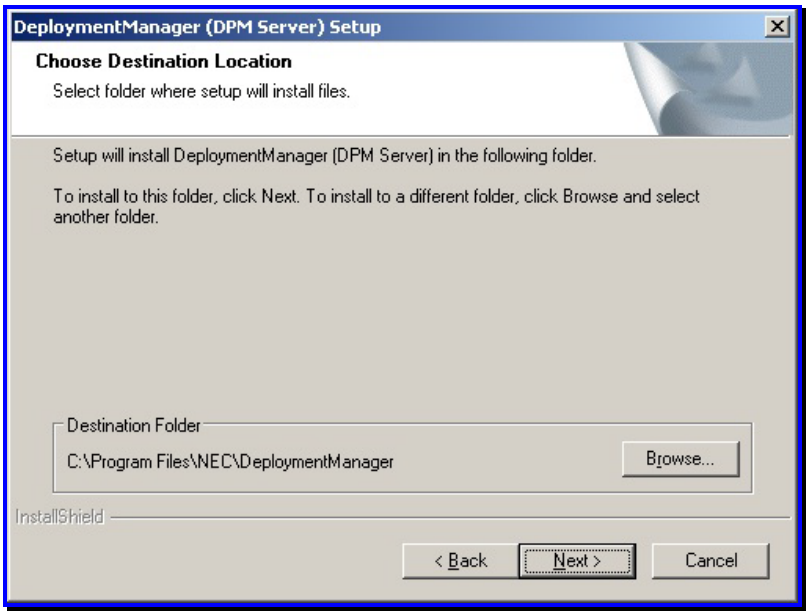
(4) After installation ends, the following screen appears. Click the **Exit** button.


Microsoft .NET Framework 3.5 SP1 Setup
Setup Complete
Microsoft .net Framework
Microsoft .NET Framework 3.5 SP1 has been installed successfully.
It is highly recommended that you download and install the latest service packs and security updates for this product.
For more information, see Windows Update
Exit

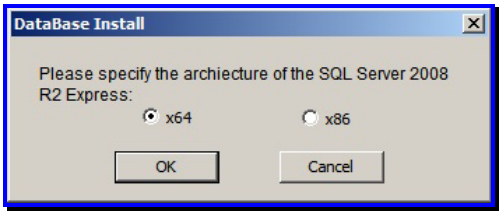
(5) The **Welcome to DeploymentManager Setup (DPM Server)** wizard begins. Click the **Next** button.


DeploymentManager (DPM Server) Setup
Welcome to DeploymentManager (DPM Server) Setup
This program will install DeploymentManager on your computer. Click Cancel to cancel setup. To continue setup, click Next.
< Back
Next >
Cancel

(6) The **Choose Destination Location** screen appears. Specify the folder for installation and click the **Next** button.


DeploymentManager (DPM Server) Setup
Choose Destination Location
Select folder where setup will install files.
Setup will install DeploymentManager (DPM Server) in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\NEC\DeploymentManager
Browse...
InstallShield
< Back
Next >
Cancel

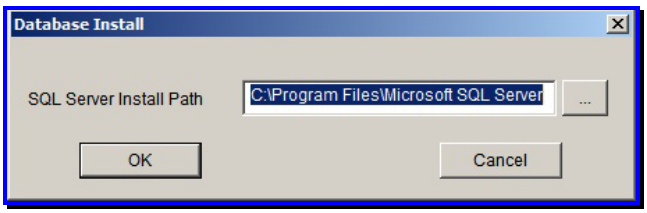
(7) During installation, the **DataBase Install** screen appears. Select the SQL Server architecture, and click the **OK** button.



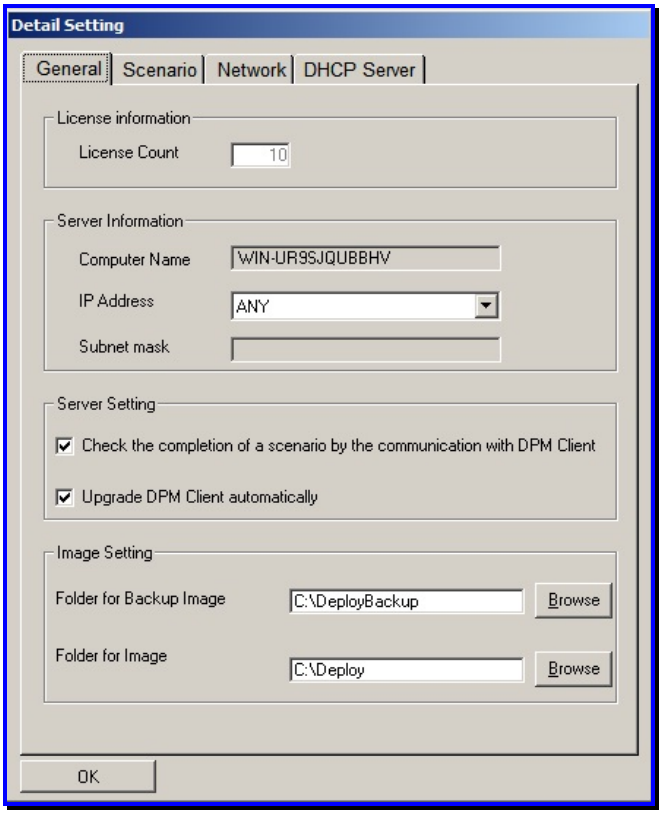
Tips

This screen will not appear on an x86 operating system.

(8) Next, the **Database Install** screen appears. Specify the destination folder, and click the **OK** button.



(9) The **Detailed Setting** screen appears. Select the **General** tab.



- Specify the **IP Address** that will be used for the connection with the DPM Client and Image Builder (Remote Console) in the IP address area of the **Server Information** box. Select ANY when you want to enable use of all IP addresses set up in the OS where the DPM Server is to be operated.

Note

- When a value other than ANY is selected as the **IP Address** and multiple IP addresses are assigned to a single LAN board, specify the first IP address that appears on the OS. The DPM may not operate correctly if another IP address is configured.
- When ANY is selected as the **IP Address** and multicast distribution is specified in the remote update scenario, you need to connect managed machines to under a single LAN board of the Management Server.
- When multicast distribution is specified in the restore scenario, specify a value other than ANY (an IP address set for the used LAN board) as the **IP Address**.

- Under **Check the completion of a scenario by the communication with DPM Client**, select the method for determining scenario completion. Select it when you want to monitor scenario completion in real-time.
  When it is checked, the scenario completion is recognized at the timing when other processing can be done next.
  (For example, it is the timing when the managed machine is restarted and the starting processing of OS/DPM Client are completed after the instruction of the restart by DPM Server.)
  - When you select it:
    The scenario execution is completed at the timing of the communication with DPM Client.
    Example) Execution of a backup scenario
    The completion of backup processing
    PXE boot
    OS start
    Communication with DPM Client (At this timing, the scenario completion is recognized.)
  - When you do not select it:
    DPM Server does not wait for the communication with DPM Client. At the timing when DPM Server executes the last processing/instruction or PXE boot is executed on the managed machine(only when DHCP server is used), the scenario is completed.
    Example) Execution of a backup scenario
    The completion of backup processing
    PXE boot (At this timing, the scenario completion is recognized.)

Note

If you select the **Check the completion of a scenario by the communication with DPM Client** check box, confirm the items below. If these points are not met, the scenario will not end.

·Be sure to install the DPM Client on the managed machine.

·The network settings must be set so that the managed machine and the DPM Server can communicate when the scenario ends.

In addition, be sure to check once again whether the managed machine is included in Section 3.8, "Managed Machines (Physical Machines)," in *First Step Guide*.

- In **Upgrade DPM Client automatically**, select whether you want to automatically upgrade the DPM Client.
  If you want to automatically upgrade the DPM Client, select the check box.
  For automatic upgrades, see Section 3.3.1, "Automatically Upgrading the DPM Client."
- If you want to change the backup image storage folder, click the **Browse** button next to **Folder for Backup Image** in the **Image setting** group box, and select the folder. The default is C:\DeployBackup.
- If you want to change the image storage folder, click the **Browse** button next to **Folder for Image** in the **Image Setting** group box, and select the folder. For the "**Folder for Image**," specify a folder name that stores service packs, applications, and the OS where OS clear installation is to be performed with DPM. The default is <DPM Server installation

drive>:\Deploy.

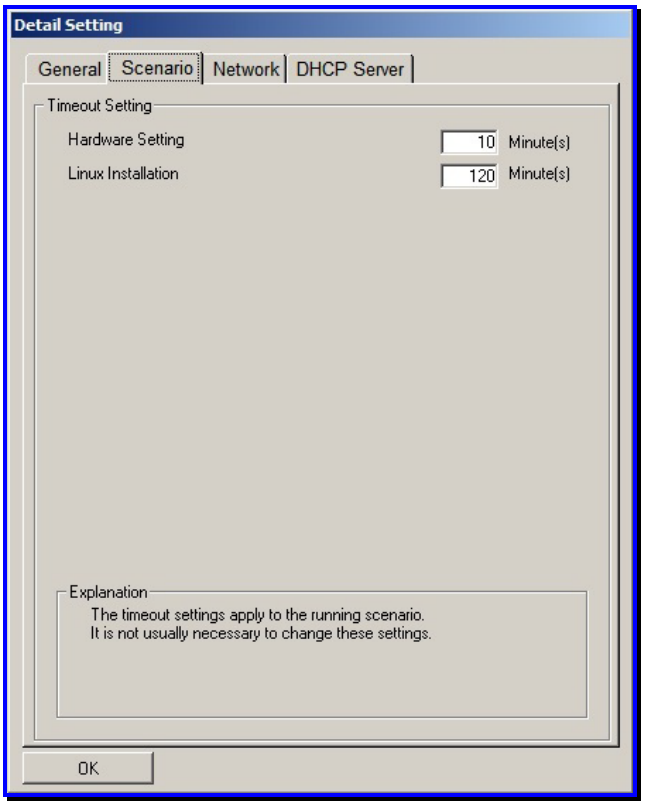
Note

- If you change the **Folder for Backup Image**, change the image file location of already created backup and restore scenarios and the following scenarios created by default:
  ·System_Backup
  ·System_Restore_Unicast
- Folders such as the following cannot be specified as the **Folder for Backup Image** or **Folder for Image** location:
  ·A folder that serves as both the **Folder for Backup Image** and **Folder for Image**
  ·The location of **Folder for Backup Image** or **Folder for Image** that is under the other folder (For example: The **Folder for Backup Image** cannot be specified as a subfolder under the **Folder for Image**).
  ·The Windows system folder
  ·A folder used by another application
  ·A folder immediately under a drive
  i.e.) "D:\"
  ·A network drive
- Do not change both the **Folder for Backup Image** and **Folder for Image** following a procedure other than that written in this manual (such as by editing or deleting the folder directly from Explorer). Be sure to change the folder from here.
- Assign access authorization to the **Folder for Backup Image** and **Folder for Image** so that the users who perform DPM operations and the accounts employed by the various services that start with the name "DeploymentManager" on the DPM Server [preset value: local system accounts (SYSTEM)] can access the folders with full control.
- Be sure to secure enough free space for both the **Folder for Backup Image** and **Folder for Image**.

Tips

- For SSC product, the DPM license is included with the SSC product. The number of licenses is not displayed**.**
- You can change the settings after DPM Server installation as well.

(10) Configure the **Scenario** tab.

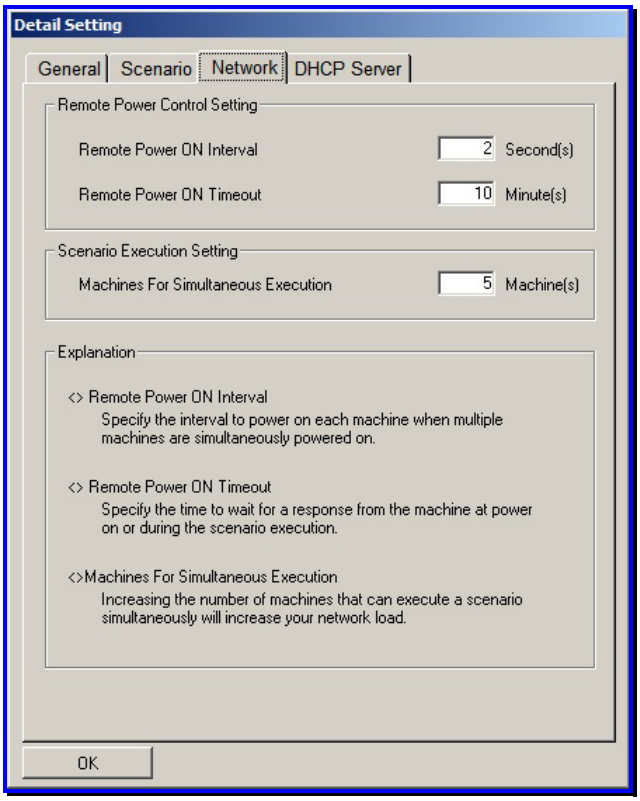


- Set the scenario timeout times. Under normal conditions, the settings do not need to be changed.

Tips

- The scenario timeout time refers to the timeout time for scenario execution. If a scenario does not end within the set time for each item, a scenario execution error occurs.
- You can change the settings after DPM Server installation as well.

(11) Configure the **Network** tab.


Detail Setting
General
Scenario
Network
DHCP Server
Remote Power Control Setting
Remote Power ON Interval
2
Second(s)
Remote Power ON Timeout
10
Minute(s)
Scenario Execution Setting
Machines For Simultaneous Execution
5
Machine(s)
Explanation
<> Remote Power ON Interval
Specify the interval to power on each machine when multiple machines are simultaneously powered on.
<> Remote Power ON Timeout
Specify the time to wait for a response from the machine at power on or during the scenario execution.
<>Machines For Simultaneous Execution
Increasing the number of machines that can execute a scenario simultaneously will increase your network load.
OK

- This tab allows you to set remote power control settings and set scenario execution settings. Change the settings as necessary.

Note

- If scenario is executed on more machines than the number specified in **Machines for Simultaneous Execution**, the scenario will be executed up to the specified number. The action of the remaining machines will differ according to the type of scenario as shown in the table below. At the timing when the scenario is completed on an executing machine, the scenarios will be sequentially executed on the remaining machines.

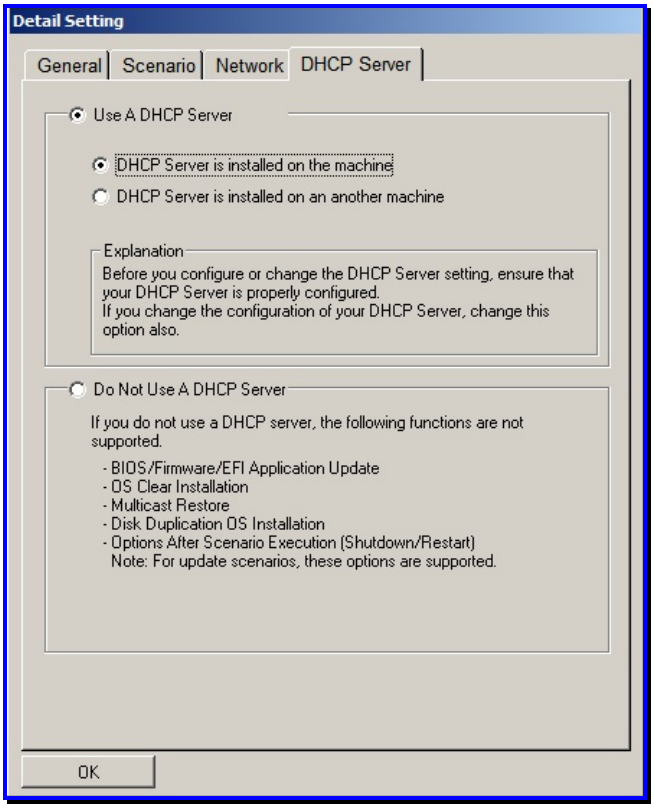
Scenario	**Remaining Machines for Simultaneous Execution**
remote update(multicast distribution)	scenario execution error
remote update(unicast distribution)	standby
backup/restore	standby

- When the power of a managed machine that is waiting for scenario execution is manually turned on, the scenario is executed, exceeding the number specified under **Machines for Simultaneous Execution**.

Tips

- **Remote Power ON Interval** is the remote power activation interval when multiple machines are turned on simultaneously.
- **Remote Power ON Timeout** is the amount of time the system should wait for a response from a machine at power on or during scenario execution. If a response is not received within the set time, a Remote Power ON error occurs. The set default value is 10 minutes. Please increase this value if there is a power on, but a power on error occurs. If you specify 0, the system waits for a response from the managed machine. (A Remote Power ON timeout error does not occur).
- **Machines for Simultaneous Execution** is used to specify the number of machines that run scenarios simultaneously. The number of devices available for concurrent control has a maximum value of 1000 devices, but the load on the network will increase as the number of scenarios concurrently running increases. The set default value is 5. If you want to run more than 5 simultaneously, change the setting.
- You can change the settings after DPM Server installation as well.

(12) Configure the **DHCP Server** tab and click the **OK** button.


Detail Setting
General
Scenario
Network
DHCP Server
Use A DHCP Server
DHCP Server is installed on the machine
DHCP Server is installed on an another machine
Explanation
Before you configure or change the DHCP Server setting, ensure that your DHCP Server is properly configured.
If you change the configuration of your DHCP Server, change this option also.
Do Not Use A DHCP Server
If you do not use a DHCP server, the following functions are not supported.
- BIOS/Firmware/EFI Application Update
- OS Clear Installation
- Multicast Restore
- Disk Duplication OS Installation
- Options After Scenario Execution (Shutdown/Restart)
Note: For update scenarios, these options are supported.
OK

- Confirm the DHCP server installation location. If you are using the DHCP service installed on the DPM server, select the **DHCP Server is installed on the machine** (selected by default). If you want to use a DHCP server on a different machine, select **DHCP Server is installed on an another machine**.

  If you do not want to install a DHCP server, select **Do Not Use A DHCP Server.**

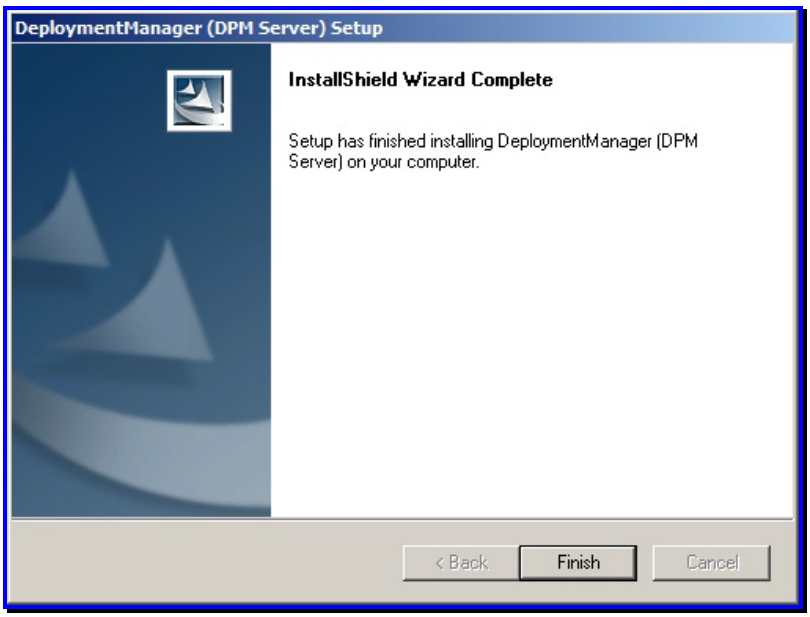
Important

If you want to use a DHCP server constructed on the DPM server, do not install another DHCP server on the same network. If you want to use a DHCP server constructed on another machine, you can have multiple DHCP servers exist on the same network.

Tips

You can change the settings after DPM Server installation as well.

(13) The **InstallShield Wizard Complete** screen appears. Click the **Finish** button.



Tips

- Once installation is completed, **DeploymentManager** is registered in the **Start** menu.
- When either of the services below is running, the port and program required for the DPM Server will open automatically. (For details on the opened port and program, see Appendix D, "Network Port and Protocol List" in *Reference Guide*.)
  ·Windows Firewall/Internet Connection Sharing(ICS)
  ·Windows Firewall

The standard installation of the DPM Server is completed.

2.1.2. Installing the DPM Server by Custom Installation

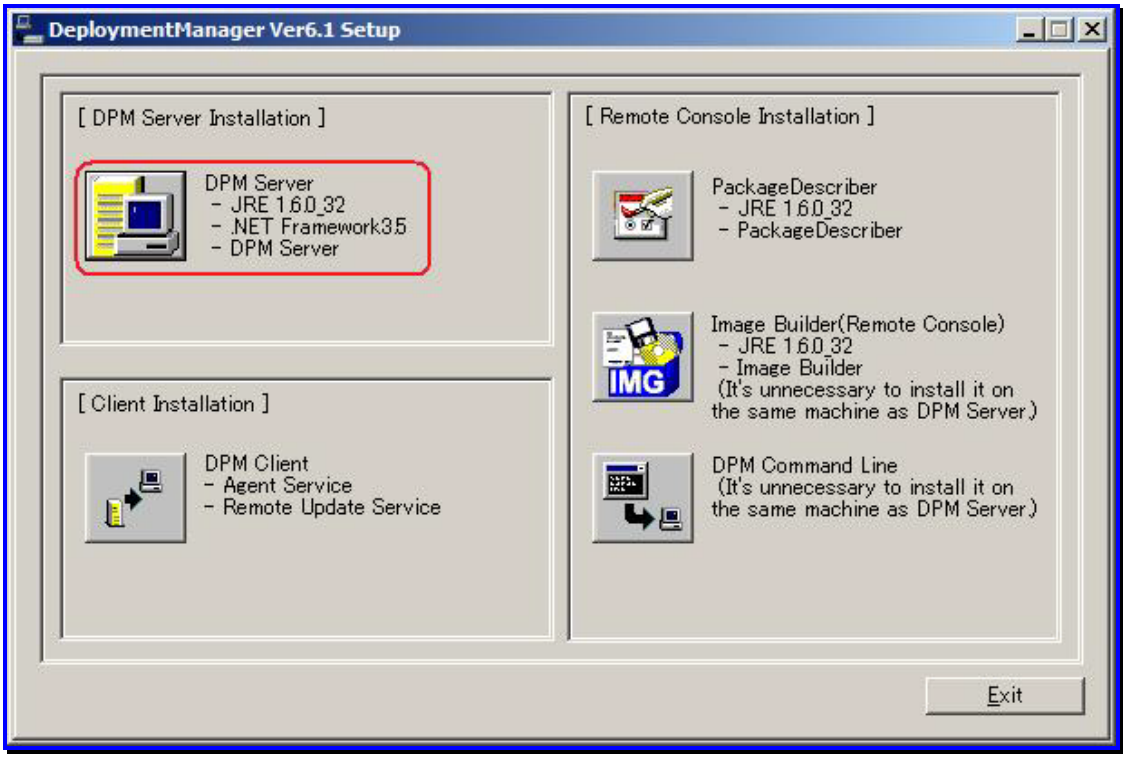
The following describes how to custom-install the DPM Server.

Note

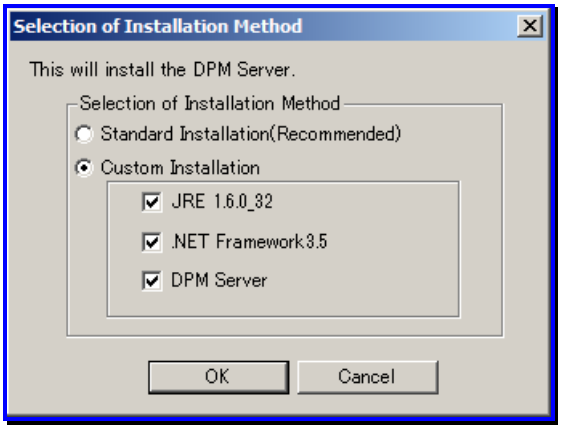
If .NET Framework 3.5 SP1 or the DPM recommended JRE 6 Update 32 has already been installed, install required components using custom installation. Use of a version of JRE that is not recommended may cause DPM to not function properly.

Log on to the machine where DPM Server is to be installed using a user with Administrator authority.

(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **DPM Server**.



(2) The **Selection of Installation Method** screen appears. Select **Custom Installation** and then check the items to install and click the **OK** button.
Clicking **Cancel** returns the screen to the **DeploymentManager Setup** screen.



The messages displayed after this point differ according to the items you have selected. (The checked items will be installed in their listed order). For further details, see Section 2.1.1, "Installing the DPM Server by Standard Installation."

The custom installation of the DPM Server is completed.

2.2. Installing the DPM Client

The DPM Client is the component installed on managed machines.

The installation method varies according to the OS of the managed machine. If you are using Windows, see Section 2.2.1, "Installing the Windows (x86/x64) Version." If you are using Linux, see Section 2.2.2, "Installing the Linux (x86/x64) Version."

During DPM client installation, note the following:

- For information on operating systems that permit installation, see Section 3.8, "Managed Machines (Physical Machines)" in *First Step Guide*.
- Log on to the machine in which the DPM Client is to be installed under Administrator authority, and verify that the required disk space exists prior to installation.
- On machines that Linux OS is installed by clear installation, the DPM Client was installed simultaneously with OS installation. There is no need to install it separately.

Important

Always use a DPM Client that is of the same version/revision as the DPM Server. If you are using an older version/revision of a DPM Client, see Section 3.3, "Upgrading the DPM Client" and upgrade the client.

Note

Be sure to install the DPM Client if you had selected **Check the completion of a scenario by the communication with DPM Client** under **Management** view -> **DPM Server** -> **Detail Setting** -> **General** tab. Failure to do so causes the system to not recognize scenario completion, resulting in a scenario error.

Tips

While DPM Client installation is not required, the following functions cannot be used without client installation:

·Installing service packs/hotfixes/Linux patch files

·Installing applications

·Shutdown

·Transmission of OS, service pack, hotfix, and Linux patch file information to DPM Server

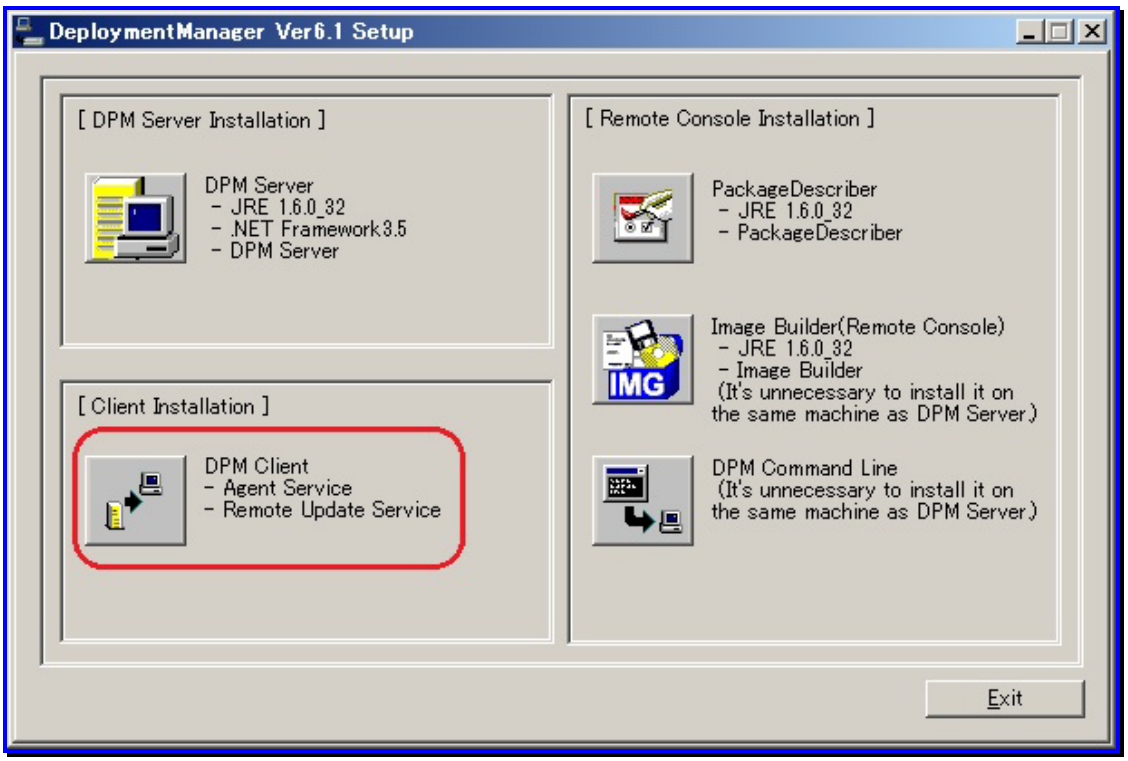
·Forced execution of restart during scenario execution

2.2.1. Installing the Windows (x86/x64) Version

This section describes how to install the DPM Client (Windows).

Log on to the machine where DPM Client is to be installed using a user with Administrator authority.

(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **DPM Client**.



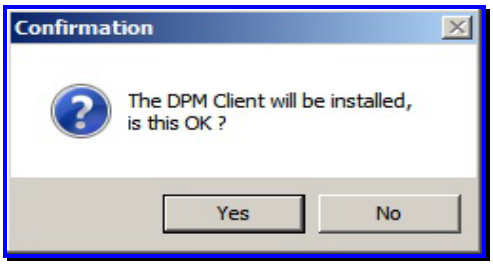
Tips

If you want to install the DPM Client on Windows Server 2008 (Server Core installation), execute the files below to display the **DeploymentManager Setup** screen.

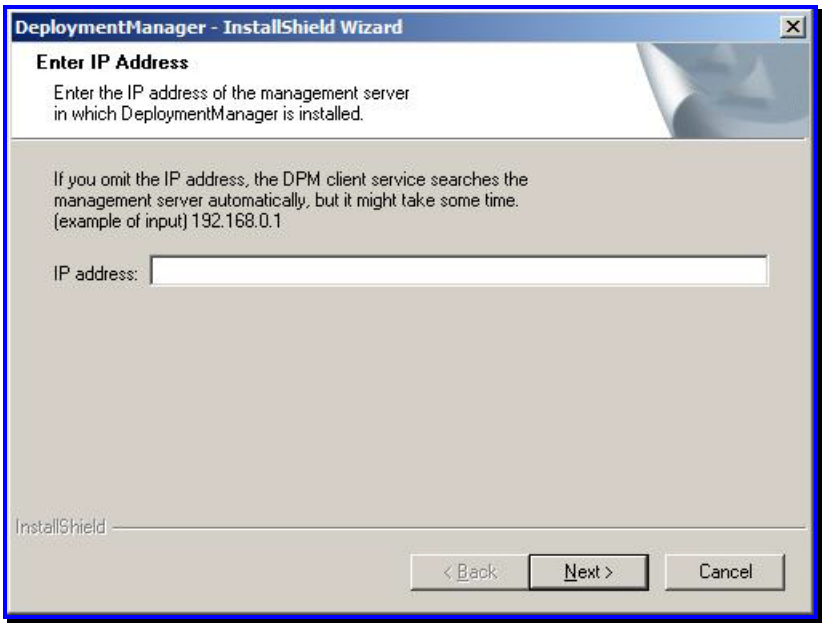
·For products for SSC: <Install media>:\DPM\Launch.exe

·For DPM unbundled product: <Install media>:\Launch.exe

(2) The **Confirmation** screen appears. Click the **Yes** button.



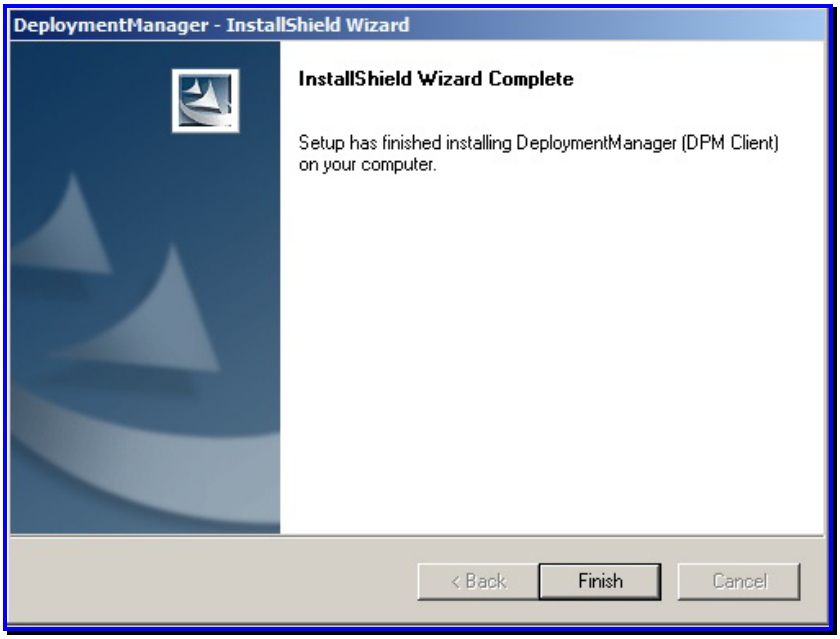
(3) The **Enter IP Address** screen appears. Enter the IP address of the Management Server where the DPM Server was installed, and click the **Next** button. If the IP address is omitted, the DPM Client searches the Management Server automatically. It may take some time to search.


DeploymentManager - InstallShield Wizard
Enter IP Address
Enter the IP address of the management server in which DeploymentManager is installed.
If you omit the IP address, the DPM client service searches the management server automatically, but it might take some time.
(example of input) 192.168.0.1
IP address:
InstallShield
< Back
Next >
Cancel

Note

When the DPM Client searches the Management Server in the environment that there are multiple Management Servers, the DPM Client obtains the IP address of the Management Server which responded first.

(4) The **InstallShield Wizard Complete** screen appears. Click the **Finish** button.



Note

Programs and Features displays the capacity of the folder in which the application was installed. The DPM Client displays a larger capacity than the actual capacity since it is installed under the system folder.

Tips

- If either the Windows Firewall Service or Windows Firewall/Internet Connection Sharing (ICS) Service is started, the port and program required by the DPM client will automatically be opened.

Protocol	Port Number/Program
ICMP	8 (Echo incoming)
TCP	DepAgent.exe
UDP	DepAgent.exe
TCP	rupdsvc.exe
UDP	rupdsvc.exe

- After installing the DPM client in Windows Server 2008 (excluding Server Core installation) /Windows Vista/Windows 7, the following message may be outputted to the event log. This message, however, is unproblematic in terms of operation.
  ·The DeploymentManager Agent service is marked as an interactive service. However, the system is configured to not allow interactive services. Therefore, this service may not function properly.
  ·The DeploymentManager Remote Update Service Client service is marked as an interactive service. However, the system is configured to not allow interactive services. Therefore, this service may not function properly.

The installation of the DPM Client (Windows) is completed.

2.2.2. Installing the Linux (x86/x64) Version

This section describes how to install the DPM Client (Linux).

Important

- The following libraries are needed for the DPM client to run.
  ·libpthread.so.0
  ·libc.so.*
  ·ld-linux.so.2
  * Indicates a numeric value.

  In addition to the above, if OS is Red Hat Enterprise Linux 6(x64) or later and ESX(x64), the following packages need to be installed. However, these need not be installed if Compatibility libraries (libraries to operate x86 modules on an x64 OS environment) are installed.
  ·glibc-*-*.i686.rpm
  * Indicates a numeric value. (Version/release number)
  Please be careful if the ignore package dependencies option (--nodeps) is set at the time of installation, because the necessary packages might not be installed.
- On Red Hat Enterprise Linux 6 or later, the following libraries are required to execute OS installation by disk duplication.
  ·libc.so.*
  ·ld-linux.so.*
  ·libcrypt.so.*
  ·libfreebl3.so
  * Indicates a numeric value.
  In addition to the above, the following packages are required if the managed machine is x64. However, these need not be installed if Compatibility libraries (libraries to operate x86 modules on an x64 OS environment) are installed.
  ·glibc-*-*.i686.rpm
  ·nss-softokn-freebl-*-*.i686.rpm
  * indicates a numeric value. (Version/release number)
  Please be careful if the ignore package dependencies option (--nodeps) is set at the time of installation, because the necessary packages might not be installed.
- The following libraries are required for a managed machine that is x64 to perform a remote update using multi-cast.
  ·/lib/libgcc_s.so.1
  This library is separately required even if a library with the same name exists under "/lib/x64". Please install the following rpm package for the libraries. If you want to install this rpm using remote update, execute distribution by unicast.
  ·libgcc-3.4.5-2.i386.rpm
- In order to install DPM client on a managed machine that already has Linux OS installed, please open the following ports that the DPM client will use.

Protocol	Port Number
TCP	26510
UDP	26529
TCP	26509

Tips

Check the library which is already installed by executing the following command.
If you execute the following command, the library information is displayed.
find / -name "library name"

Example)
find / -name libpthread.so.0
or
find / -name libpthread*
(* indicates the wildcard.)

In the case of the above command, the following information means that the library is already installed.
/lib/libpthread.so.0

(1) Using a root account, log in to the machine on which the DPM Client is to be installed.

(2) Insert the install media into the DVD drive.

(3) Mount the install media.
mount <DVD drive to mount>

Tips

For more information about using the mount command, see the manual of used OS.

(4) Enter the following command to change the current directory.

Tips

·For SSC product: # cd /mnt/dvd/DPM/Linux/ia32/bin/agent
·For DPM unbundled product: # cd /mnt/dvd/Linux/ia32/bin/agent

(5) Execute depinst.sh.
#./depinst.sh

Tips

Depending on the execution environment, you may not have the authority to run depinst.sh on the install media.
In this case, copy the DPM client module in the Linux directory on the install media to the correct directory on the hard disk, then run a chmod command like in the example below to grant authority for all of the files and then run depinst.sh.

Example)
cd /mnt/*copy destination directory*/agent
chmod 755 *

*The save location for the DPM client installer is as below.
·For SSC product: <Install media>:/DPM/Linux/ia32/bin/agent
·For DPM unbundled product: <Install media>:/Linux/ia32/bin/agent

(6) Entering the IP address of the Management Server is requested. Enter the value and press the **Enter** key.
If IP address is omitted, the DPM Client searches the Management Server automatically after the completion of the installation. It may take some time to search.

Enter the IP address of the management server.
(If you omit the IP address, the DPM client service searches the management server automatically, but it might take some time.)
>

Note

When the DPM Client searches the Management Server in the environment that there are multiple Management Servers, the DPM Client obtains the IP address of the Management Server which responded first.

The installation of the DPM Client (Linux) is completed.

Note

If unzip is not installed, the following message appears on the console. Please install unzip.
The unzip command is required in order to support remote update.
Please install a unzip package.
The unzip package is attached to installation CD of Linux OS.
Installation of client service was completed.

Tips

- You do not need to restart the system.
- If Linux is running on an X window system and the DPM Client (Linux) is installed, the console automatically opens at log-in in order to display messages of shutdown from the DPM Server or the remote updates performed. If you exit the console, you cannot see the messages. If you accidently exit the console, open the console again.
  Note that when the system is running in txt mode, these messages are outputted to the active screen. txt mode will not impact DPM operation.
- When you install the DPM Client, the following message may appear:
  Warning: This program is an suid-root program or is being run by the root user. The full text of the error or warning message cannot be safely formatted in this environment. You may get a more descriptive message by running the program as a non-root user or by removing the suid bit on the executable.
  /usr/X11R6/bin/xterm Xt error: Can't open display:%s

  This message appears under one of the following conditions:
  ·The DPM Client was installed without X server installed on the managed machine.
  ·X server is installed on the managed machine, but was not running when you installed the DPM Client.
  ·You installed the DPM Client after logging into the managed machine using a root user account from telnet.
  This happens because DPM Client related messages cannot be displayed. There is no impact on actual operation.
- With SUSE Linux Enterprise, the console for displaying messages outputted by the Linux agent client service does not automatically open at X-Window startup. If you need to open the console, edit the X-Window startup script following the procedure below:
  1) Open the /etc/X11/xinit/xinitrc file using an editor such as vi.
  2) Insert the following lines under the line **#Add your own lines here . . .**: *
     # Console for client service
     if [-x /etc/X11/xinit/xdpmmsg.sh] ; then
       /etc/X11/xinit/xdpmmsg.sh
     fi
  3) Save the file and close the editor.
  4) Restart the machine or X-Window.
  *If the line **#Add your own lines here . . .** does not exist, insert the line before the **exec $WINDOWSMANAGER** line.

2.3. Installing Image Builder (Remote Console)

Image Builder is a tool for creating package, disk duplication data files etc, and registering the created files to the Management Server.
Image Builder is simultaneously installed when you install the DPM Server, and therefore does not need to be separately installed when used on the same machine as the DPM Server.
Image Builder installation is required when used on a machine other than the DPM Server machine. In this case, Image Builder is referred to as Image Builder (Remote Console).

Note the following precautions when installing Image Builder (Remote Console):

- For information on the operating systems that permit installation, see Section 3.4, "Image Builder(Remote Console)" in *First Step Guide*.
- Verify that the disk space required to install **Image Builder (Remote Console)** exists. Additional disk space is required for JRE installation. (The required disk space varies depending on the JRE version).

Tips

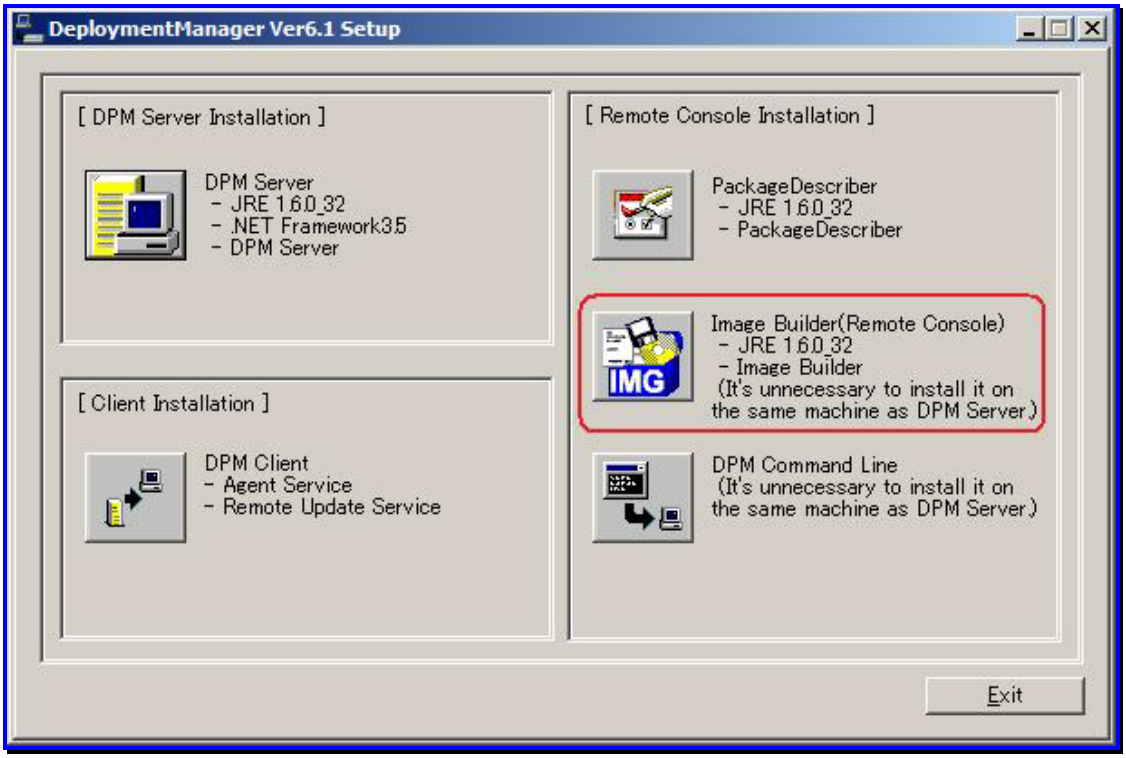
If you want to use an existing JRE, see Section 2.3.2, "Installing Image Builder (Remote Console) by Custom Installation."

2.3.1. Installing Image Builder (Remote Console) by Standard Installation

The following describes how to install Image Builder (Remote Console) by standard installation.

Log on to the machine where Image Builder (Remote Console) is to be installed using a user with Administrator authority.

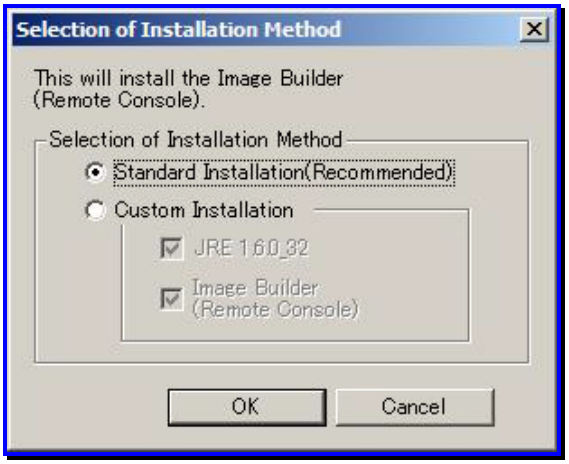
(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **Image Builder(Remote Console)**.



(2) The **Selection of Installation Method** screen appears. Select **Standard Installation(Recommended)** and click the **OK** button.
Clicking the **Cancel** button returns the screen to the **DeploymentManager Setup** screen.

Tips

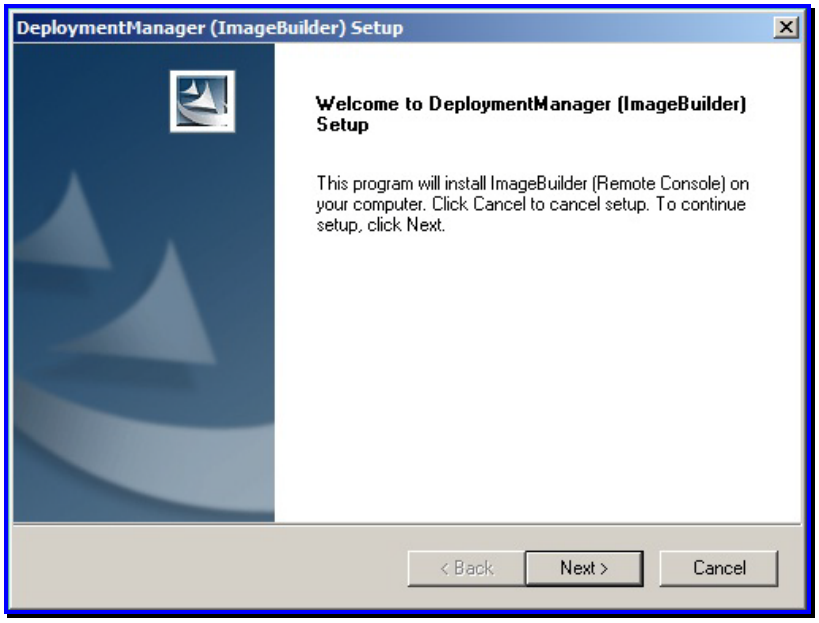
In an environment where JRE is already installed, select **Custom Installation**, remove the checkmark from JRE, and click the **OK** button.



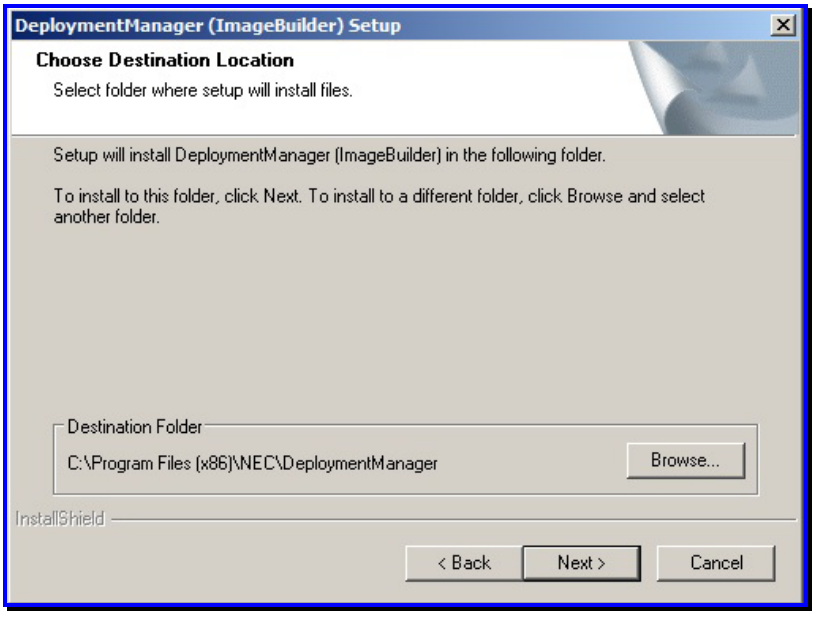
Tips

The dialog appears when JRE is already installed.
·Click the **YES** button to overwrite the existing JRE.
·Click the **Cancel** button to return to the **DeploymentManager Setup** screen.

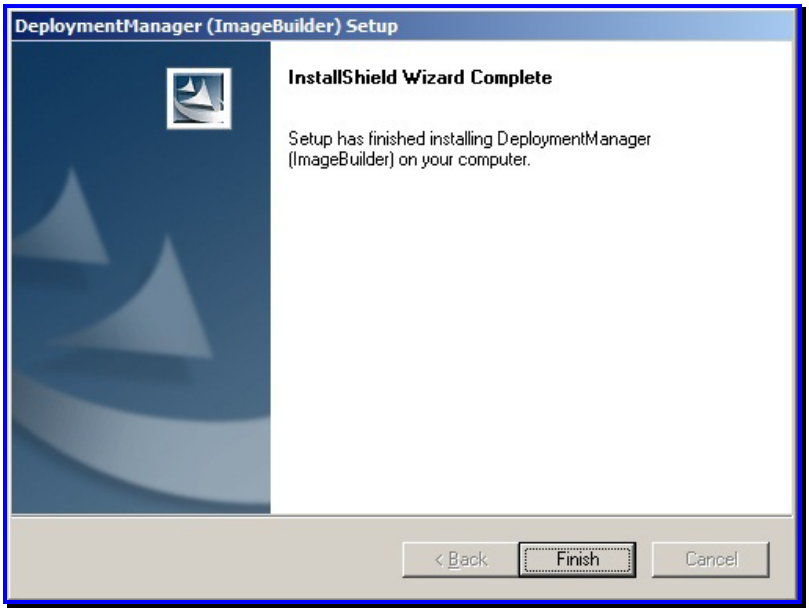
(3) Wait until the installation of JRE is completed.
Next, the **Welcome to DeploymentManager (ImageBuilder) Setup** wizard begins. Click the **Next** button.


DeploymentManager (ImageBuilder) Setup
Welcome to DeploymentManager (ImageBuilder) Setup
This program will install ImageBuilder (Remote Console) on your computer. Click Cancel to cancel setup. To continue setup, click Next.
< Back
Next >
Cancel

(4) The **Choose Destination Location** screen appears. Specify the folder for installation and click the **Next** button.


DeploymentManager (ImageBuilder) Setup
Choose Destination Location
Select folder where setup will install files.
Setup will install DeploymentManager (ImageBuilder) in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files (x86)\NEC\DeploymentManager
Browse...
InstallShield
< Back
Next >
Cancel

(5) The **InstallShield Wizard Complete** screen appears. Click the **Finish** button.



Tips

Once installation is completed, **DeploymentManager** is registered in the **Start** menu.

The standard installation of Image Builder (Remote Console) is completed.

2.3.2. Installing Image Builder (Remote Console) by Custom Installation

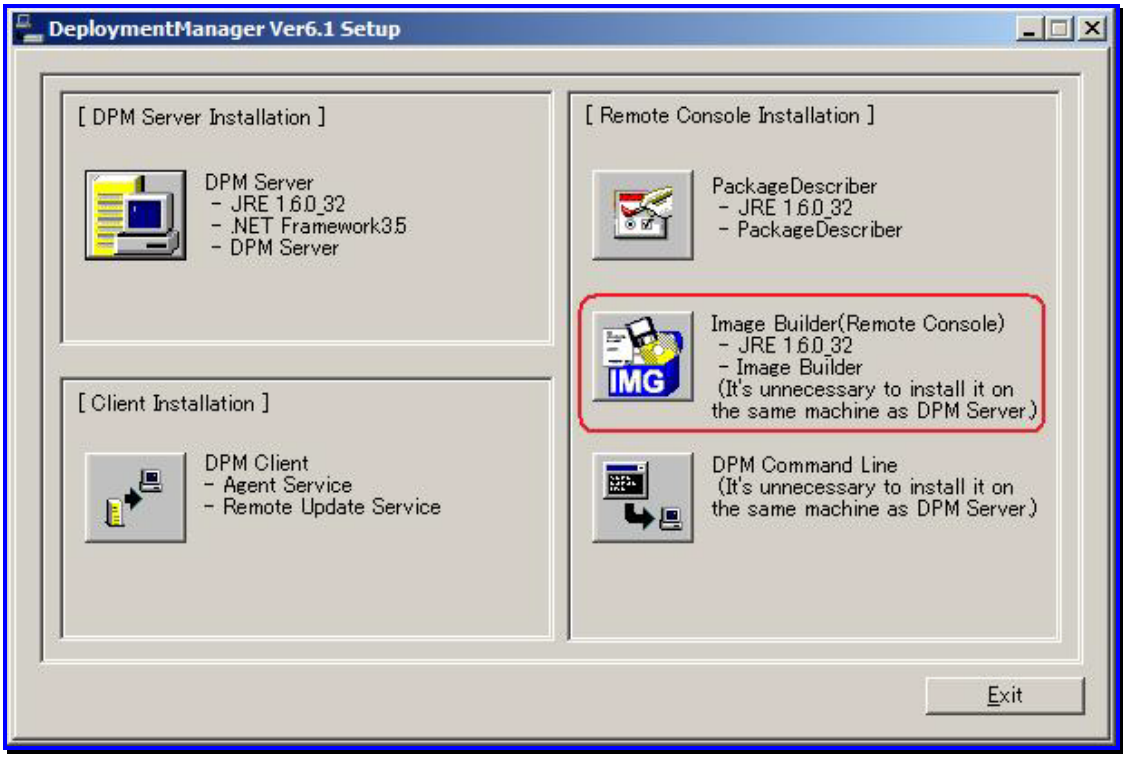
The following describes how to install Image Builder (Remote Console) by custom installation.

Note

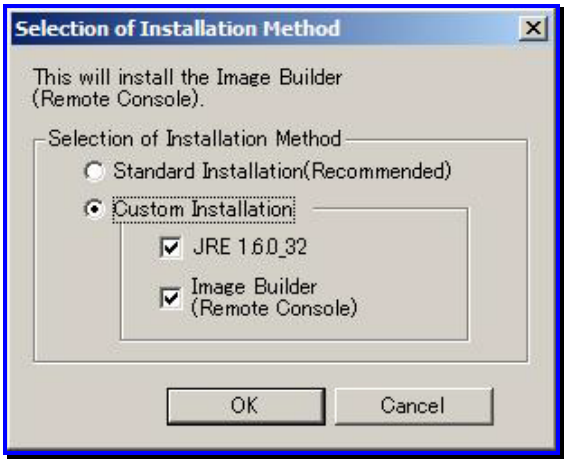
If you install Image Builder(Remote Console) by custom installation in other than recommended combination, Image Builder(Remote Console) may not operate properly.

Log on to the machine where Image Builder (Remote Console) is to be installed using a user with Administrator authority.

(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **Image Builder(Remote Console)**.



(2) The **Select Installation Method** screen appears. Select **Custom Install** and then check the items to install and click the **OK** button.
Clicking the **Cancel** button returns the screen to the **DeploymentManager Setup** screen.



The messages displayed after this point differ according to the items you have selected. (The checked items will be installed in their listed order). For further details, see Section 2.3.1, "Installing Image Builder (Remote Control) by Standard Installation."

The custom installation of Image Builder (Remote Console) is completed.

2.4. Installing DPM Command Line

DPM Command Line is a command line interface used to execute processing on managed machines and check the execution status.
DPM Command Line is simultaneously installed when you install the DPM Server, and therefore does not need to be separately installed when used on the same machine as the DPM Server. Installation of DPM Command Line is required when used on a machine other than the DPM Server machine.

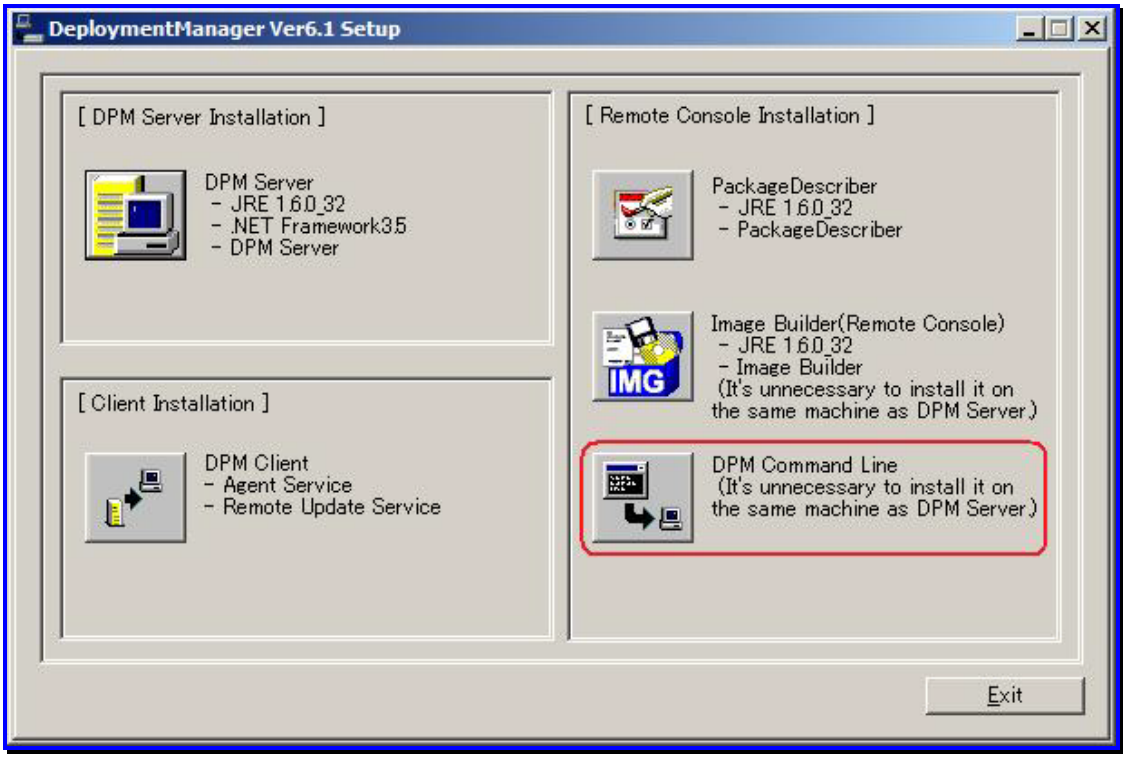
During DPM Command Line installation, note the following:

- For information on operating systems that permit installation, see Section 3.5, "DPM Command Line" in *First Step Guide*.
- Verify that the disk space required to install DPM Command Line exists.

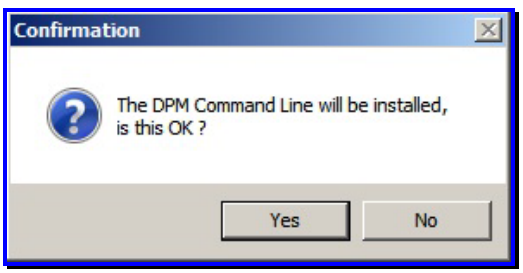
The following describes how to install DPM Command Line.

Log on to the machine where DPM Command Line is to be installed using a user with Administrator authority.

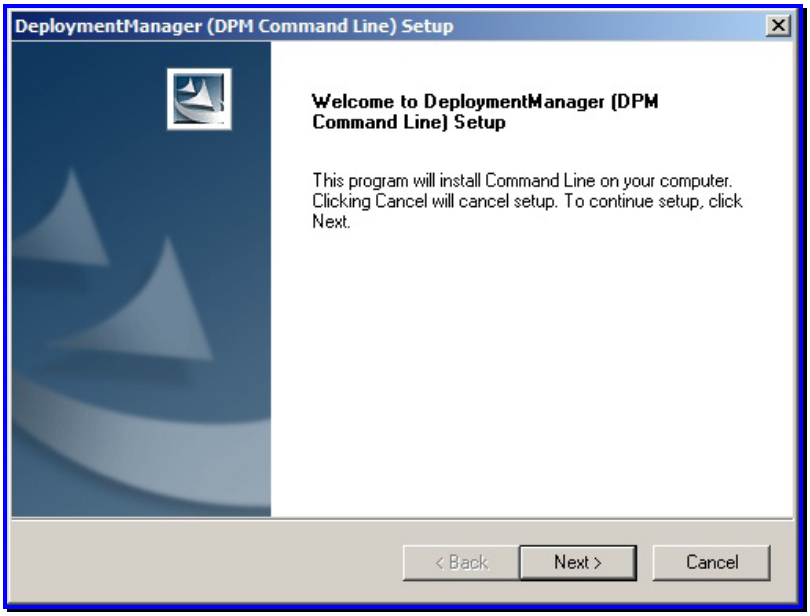
(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **DPM Command Line**.



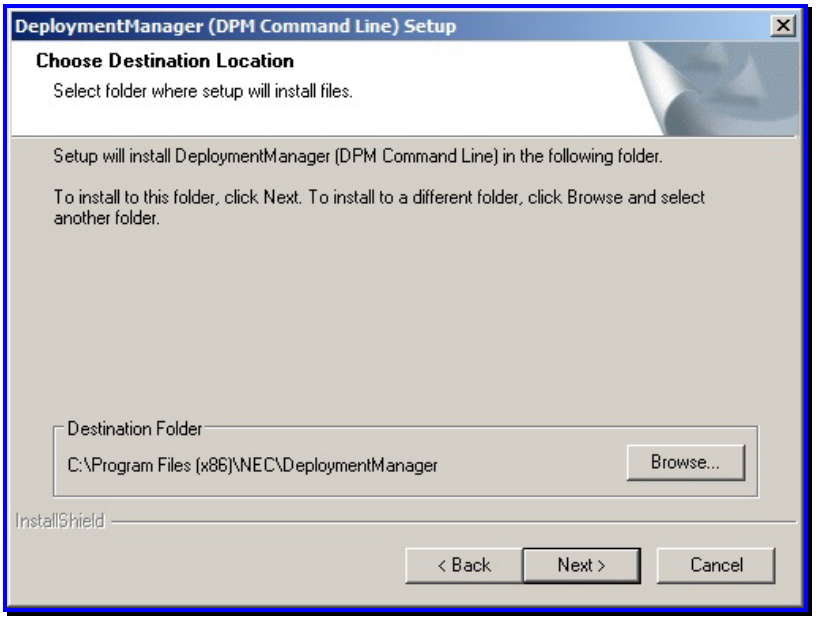
(2) The **Confirmation** screen appears. Click the **Yes** button.



(3) The **Welcome to DeploymentManager (DPM Command Line) Setup** wizard begins. Click the **Next** button.


DeploymentManager (DPM Command Line) Setup
Welcome to DeploymentManager (DPM Command Line) Setup
This program will install Command Line on your computer. Clicking Cancel will cancel setup. To continue setup, click Next.
< Back
Next >
Cancel

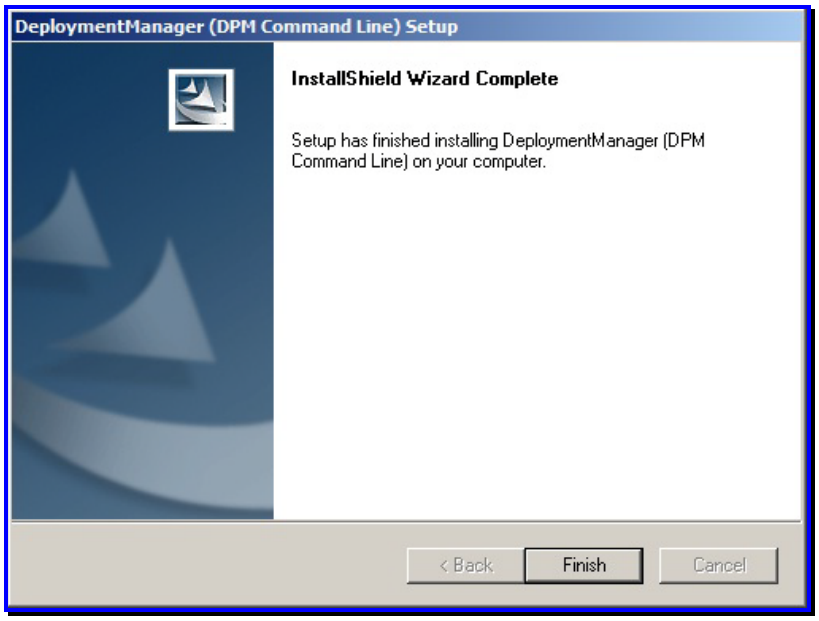
(4) The **Choose Destination Location** screen appears. Specify the folder for installation and click the **Next** button.


DeploymentManager (DPM Command Line) Setup
Choose Destination Location
Select folder where setup will install files.
Setup will install DeploymentManager (DPM Command Line) in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files (x86)\NEC\DeploymentManager
Browse...
InstallShield
< Back
Next >
Cancel

Important

Be sure to remember the folder that you specified for installation. To use DPM Command Line, move to the installation destination from the command prompt. The default installation folder is:
(System Drive):\Program Files\NEC\DeploymentManager.

(5) The **InstallShield Wizard Complete** screen appears. Click the **Finish** button.



The installation of DPM Command Line is completed.

Tips

For details on how to use DPM Command Line, see Section 8, "DPM Command Line" in *Reference Guide*.

2.5. Installing PackageDdescriber

PackageDescriber is a tool used to create and register packages to the Package Web Server.

During PackageDescriber installation, note the following:

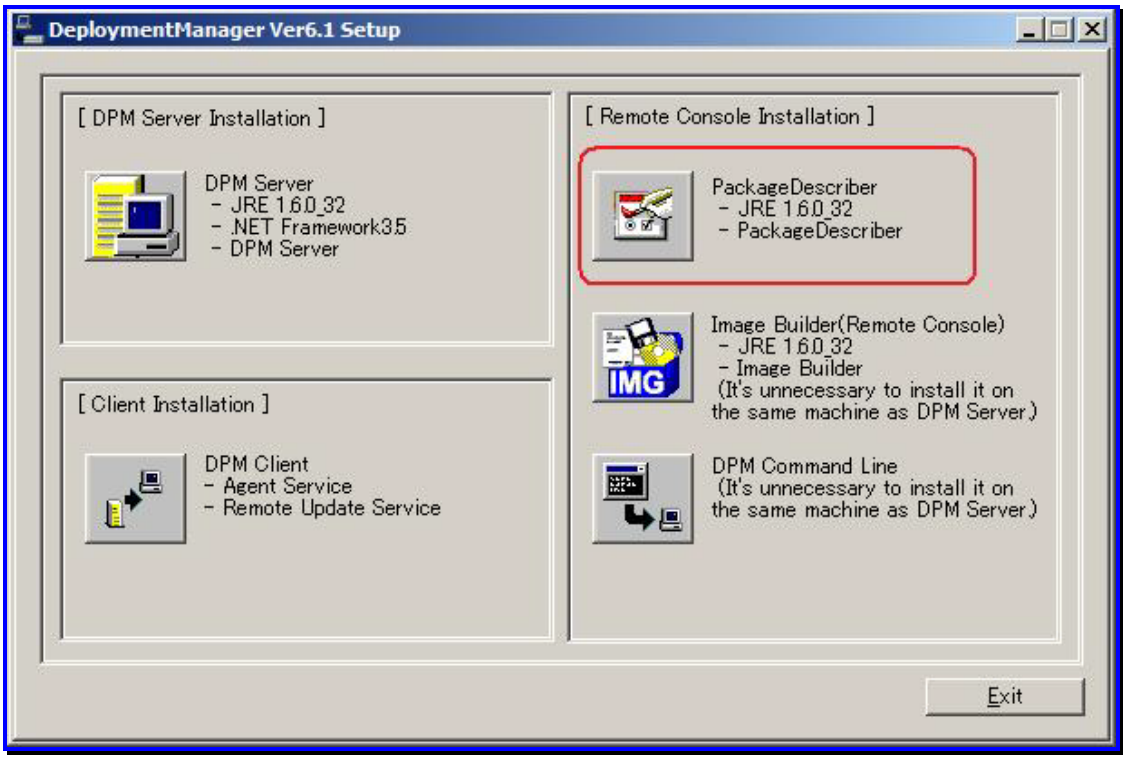
- For information on operating systems that permit installation, see Section 3.7, "PackageDescriber" in *First Step Guide*.
- Verify the disk space required to install PackageDescriber.

2.5.1. Installing PackageDescriber by Standard Installation

The following describes how to install PackageDescriber by the standard installation.

Log on to the machine where PackageDescriber is to be installed using a user with Administrator authority.

(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **PackageDescriber**.



Note

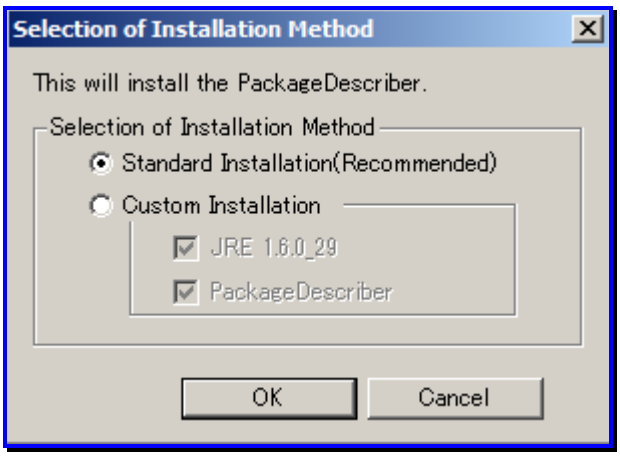
If you want to install PackageDescriber in an environment where UAC is enabled on Windows Vista, be sure to follow the procedure below.

1) On the **DeploymentManager Setup Screen**, click the **Exit** button.
2) Using Explorer, etc., right-click the following files and select **Run as Administrator**.
   ·For SSC product:<Install media>:\DPM\Launch.exe
   ·For DPM unbundled product:<Install media>:\Launch.exe
3) The **DeploymentManager Setup** screen appears again. Select **PackageDescriber**.

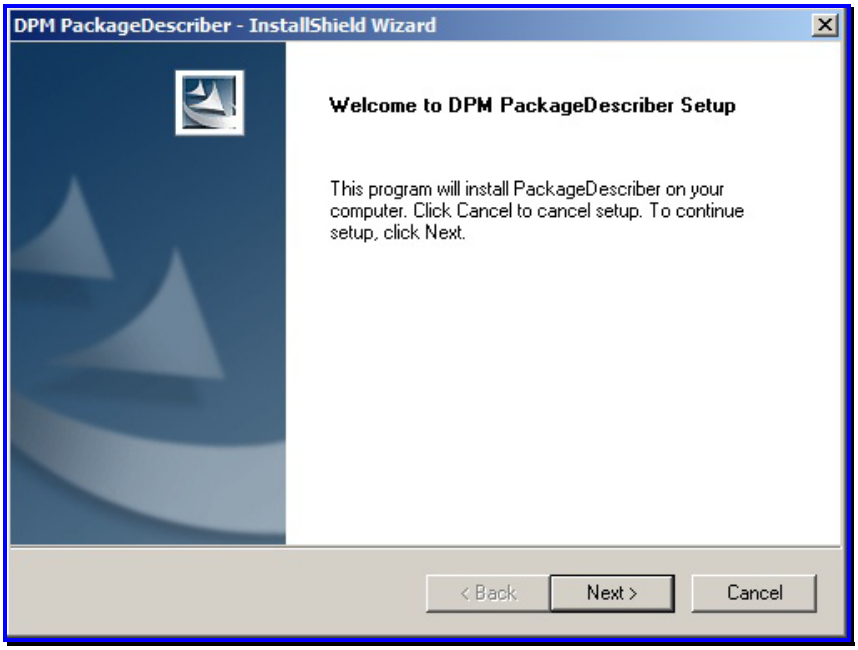
(2) The **Selection of Installation Method** screen appears. Select **Standard Installation** -> click the **OK** button.
Clicking **Cancel** returns the screen to the **DeploymentManager Setup** screen.

Tips

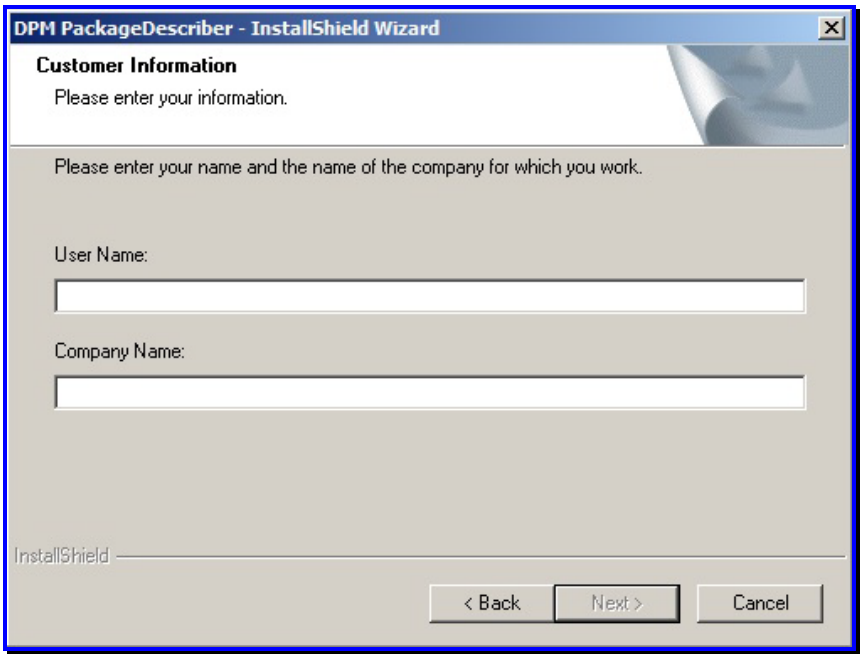
If JRE is already installed (when performing installation on the same machine as the DPM Server, etc.), select **Custom Installation**, remove the checkmark from JRE, and click the **OK** button. The following describes the method for **Standard Installation**.



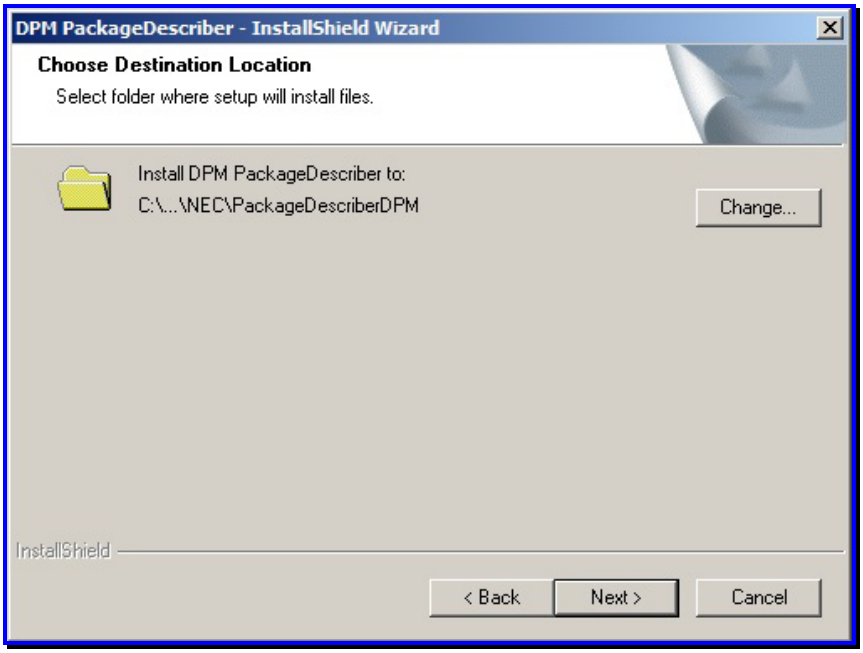
(3) Wait until the installation of JRE is completed.
Next, the PackageDescriber Installer starts. The **Welcome to DPM PackageDescriber Setup** screen appears. Click the **Next** button.


DPM PackageDescriber - InstallShield Wizard
Welcome to DPM PackageDescriber Setup
This program will install PackageDescriber on your computer. Click Cancel to cancel setup. To continue setup, click Next.
< Back
Next >
Cancel

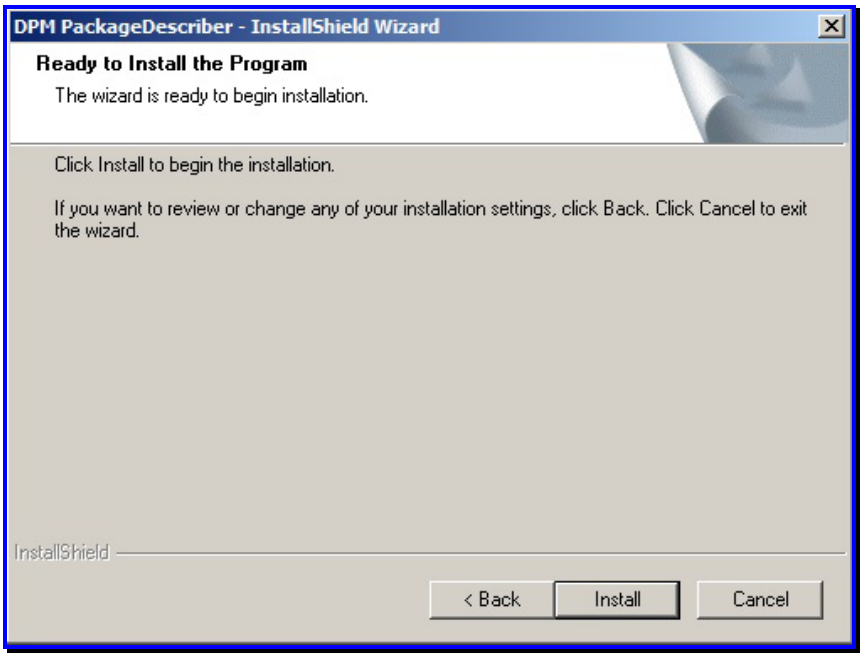
(4) The **Customer Information** screen appears. Enter the **User Name** and **Company Name**, and click the **Next** button.



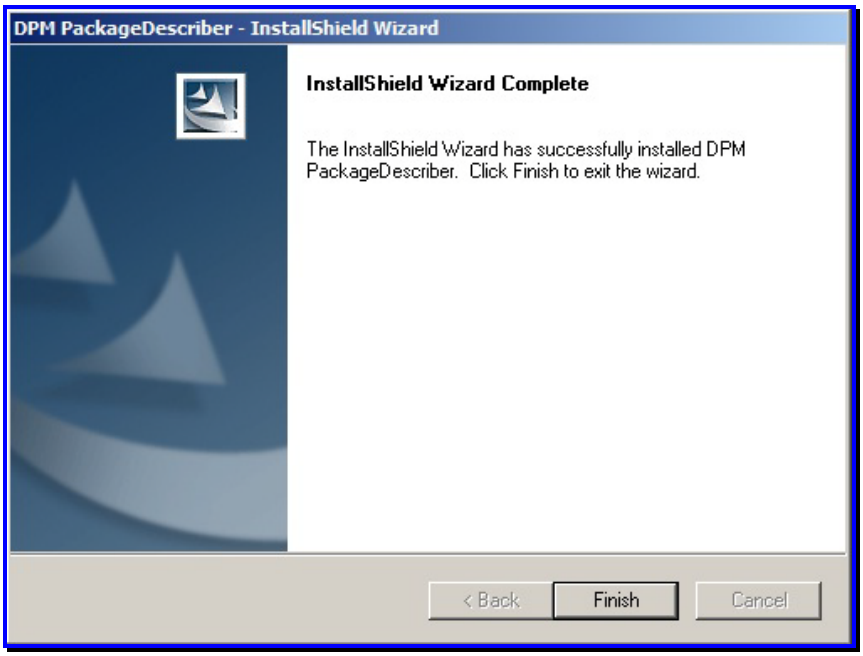
(5) The **Choose Destination Location** screen appears. Specify the folder for installation and click the **Next** button.
The default setting is (System drive):\Program Files\NEC\PackageDescriberDPM. Click the **Change** button to change the setting.



(6) The **Ready to Install the Program** screen appears. Click the **Install** button.


DPM PackageDescriber - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

(7) The **InstallShield Wizard Complete** screen appears. Click the **Finish** button.


DPM PackageDescriber - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed DPM PackageDescriber. Click Finish to exit the wizard.
< Back
Finish
Cancel

The installation of PackageDescriber is completed.

Tips

Once installation is completed, a shortcut is added to the **Start** menu.

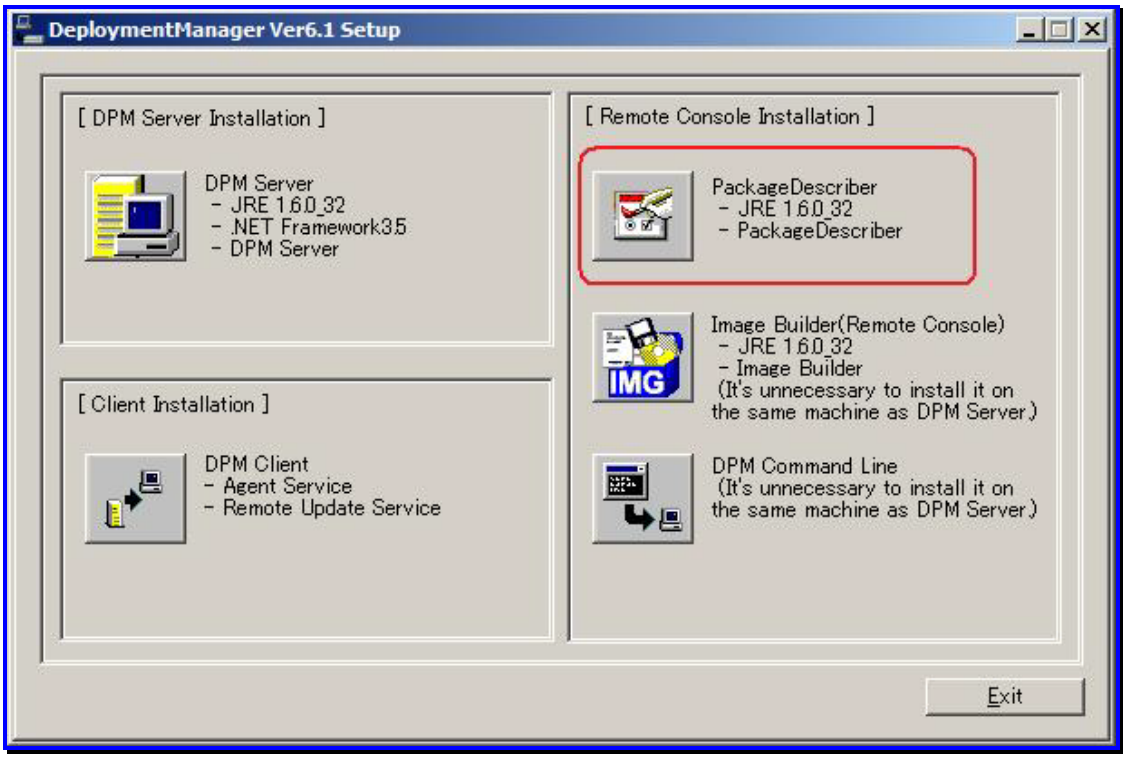
2.5.2. Installing PackageDescriber by Custom Installation

The following describes how to custom-install PackageDescriber.

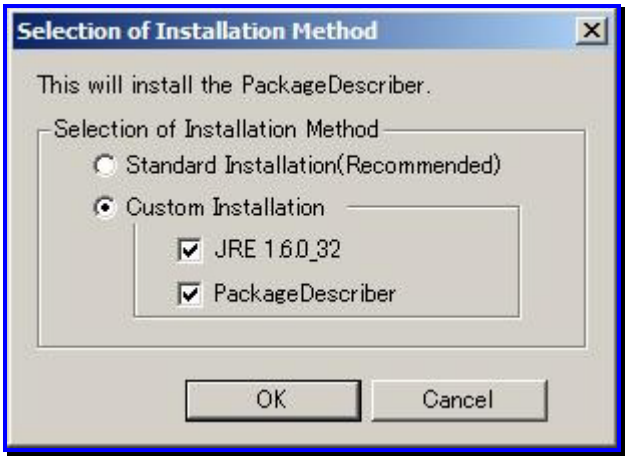
Note

If you install PackageDescriber by custom installation in other than recommended combination, PackageDescriber may not operate properly.

(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **PackageDescriber**.



(2) The **Selection of Installation Method** screen appears. Check **Custom Installation** and click the **OK** button.
Clicking **Cancel** returns the screen to the **DeploymentManager Setup** screen.



(3) The messages displayed after this point differ according to the items you have selected. (The checked items will be installed in their listed order).
For further details, see Section 2.5.1, "Installing PackageDescriber by Standard Installation."

The custom installation of PackageDescriber is completed.

3. Upgrading DPM

This chapter describes how to upgrade the environment, in which DPM of old version (version prior to DPM Ver6.1) is installed, to DPM Ver6.1.

3.1. Before Upgrading DPM

3.1.1. Upgrading Precautions

The following describes how to upgrade each function of DPM. Before starting the upgrade process, finish DPM related tasks. If Event Viewer is running, close Event Viewer as well.

Important

- This system supports the following upgrades only:
  ·From a Standard Edition product of DPM Ver4.0 or later to a DPM unbundled product of this current version
  ·From a Enterprise Edition product of DPM Ver4.0 or later to a DPM unbundled product of this current version
  ·From a SSC product of SSC 1.1 (DPM Ver4.1 or later) to a SSC product of this current version
- If you want to install a SSC product or DPM unbundled product of this current version after installing VirtualPCCenter VH of DPM Ver5.0 or earlier, first uninstall the VirtualPCCenter VH and then install the DPM unbundled product.
- If you want to upgrade a DPM unbundled product from an older version, you need to register the license key for this current version after upgrading. If you do not register the license key, you cannot use DPM.
  If you have a PP support service agreement, you can upgrade the version in accordance with the media license free-of-charge. Apply for a version upgrade through the PP support service.
  You can use your license key as is for revision upgrades (when the upgrade is for a DPM version of x.y with a different y only).
  For the detail of the license registration, see Section 5.1.4, "Registering the License Key."
  (For SSC products, see *SigmaSystemCenter Installation Guide*).
- Management Server for DPM, Web Server for DPM and Database which is earlier than DPM Ver6.0 are integrated into the DPM server in DPM Ver6.0 and later. The data of each component in the version earlier than DPM Ver6.0 will be handled as follows at the time of the upgrade.
  - The Management Server for DPM data will be inherited at the time of upgrade.
  - If you are using DPM Ver5.0 or later, the SQL server and DPM database (DPMDBI Instance) are installed. In this case, DPMDBI Instance can be inherited and used as is when upgraded.
  - Web server for DPM (DPM data used by Tomcat) is removed when upgrading the DPM Server to DPM Ver6.0 and later because it is not used any more.
- DPM Ver6.0 and later does not use Tomcat which was used in versions earlier than DPM Ver6.0. Uninstall Tomcat as necessary. For the uninstallation method, see the user's guide of the version you used.
  [DPM Ver4.21 or earlier]
  <Install media>:\DPM\TOOLS\TomcatUninstall\Tomcat_Silent_Uninst_41.bat
  Execute \DPM\TOOLS\TomcatUninstall\Tomcat_Silent_Uninst_41.bat
  [DPM Ver4.3x or later]
  <Install media>:\DPM\TOOLS\TomcatUninstall\Tomcat_Silent_Uninst_55.bat
  Execute \DPM\TOOLS\TomcatUninstall\Tomcat_Silent_Uninst_55.bat
  [DPM Ver5.x or later]
  <Install media>:\DPM\TOOLS\TomcatUninstall\Tomcat_Silent_Uninst_60.bat

Execute \DPM\TOOLS\TomcatUninstall\Tomcat_Silent_Uninst_60.bat

- The upgrade installation which DPM Ver5.x Management Server for DPM and the database configured with different machines is not supported. Also, for Management Server for DPM and Web server for DPM configured with different machines, please perform an upgrade installation of the DPM Server on the machine that has installed Management Server for DPM. Web server for DPM does not use, so please uninstall it. Uninstall Tomcat itself if necessary.
- Before upgrading, verify version support by seeing Appendix A, "Support Table" in *First Step Guide*.
- If you changed the port in the version earlier than DPM Ver6.1, the port will be inherited at the time of the upgrade.
- In the case of changing the port used by DPM when upgrading from versions earlier than DPM Ver6.1 to this version, see Section 9.4, "Procedure to Change the Port Used by DPM" in *Reference Guide*.

Note

- You cannot perform upgrades from "Programs and Features".
- Perform upgrades from the install media.

3.2. Upgrading the DPM Server

The following describes how to upgrade the DPM Server.

Perform the upgrade process on the machine in which the DPM Server (Management Server for DPM on versions earlier than DPM Ver6.0) is installed.
The upgrade procedure varies depending on the version.

Note

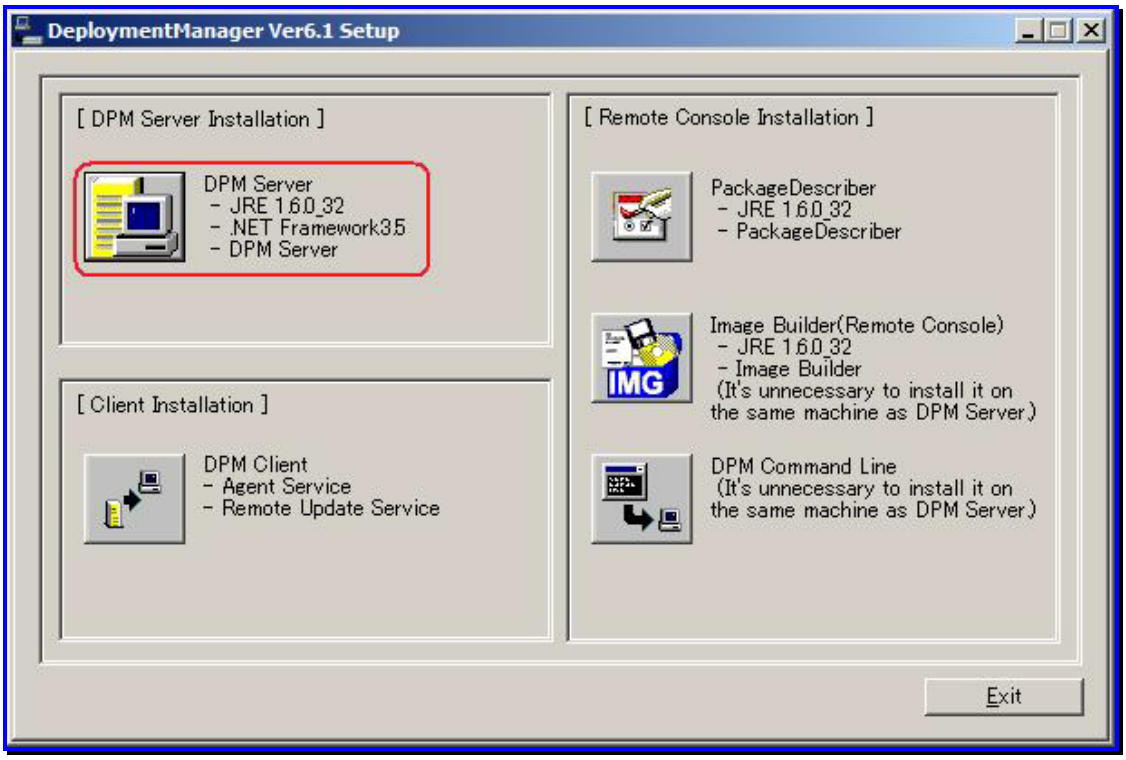
- If upgrade installing from DPM Ver4.0/4.1/4.2/4.3, please stop all services (services starting with the name "DeploymentManager") related to DPM. (If the services do not stop, close the processes using Windows Task Manager). For services of DPM, see the manual of the respective version.
- If Tomcat is installed, stop the "Apache Tomcat" service.
- Confirm that Windows Installer 4.5 or later has been installed.
  Windows Installer 4.5 is provided on the install media.
  [For Windows Server 2008 (x64)]
  <Install media>:\dotNet Framework35 SP1\Windows6.0-KB942288-v2-x64.msu
  [For Windows Server 2008 (x86)]
  <Install media>:\dotNet Framework35 SP1\Windows6.0-KB942288-v2-x86.msu
  [For Windows Server 2008 R2]
  Installed by default. Installation is not required.
- If you want to upgrade from a version earlier than DPM Ver6.0, you will need to install and set up IIS. See Section 1.2.1, "Installing Internet Information Services (IIS)."
- Do not change the Web Site name on IIS except to the following name.
  - Default Web Site
  - WebRDP
- For backup image files created by DPM with a version earlier than DPM Ver6.0, note the following:
  - DPM Ver6.1 does not automatically move the files to the **Folder for Backup Image** set up on the Web Console. Manually move the files to the backup image storage folder.
  - If a backup image file is located in the **Folder for Backup Image**, the backup image file appears as an image on the **Image List** screen of the Web Console, but the information related to the image does not. To display the related information, you will need to execute backup once again.
- The OS clear installation function of Windows OS cannot be used from DPM Ver6.0. If you used the OS clear installation function with a version prior to DPM Ver6.0, perform the following prior to upgrading.
  - Please delete scenarios that include Windows OS clear installation from the Web console.
  - Please delete the OS image used for OS clear installation (Windows) from **Image Builder** -> **Delete registered data** -> **Operating system**.
- About DPM Ver6.02 or later, "/"(slash) cannot be used as a machine group name and a scenario group name. Therefore, when you upgrade from the version earlier than DPM Ver6.02, if the group name includes "/", the "/" will be automatically converted to "_"(underscore). If there are the same group names, the content of two groups will be merged by this conversion.

Tips

- Be sure to remove in advance the service packs, hotfixes, and applications that you do not plan on using this version.
- About the database *configuration steps for each produc*t of the SQL Server, contact your sales or support representative about it.

Log on to the machine to be upgraded using a user of Administrator authority.

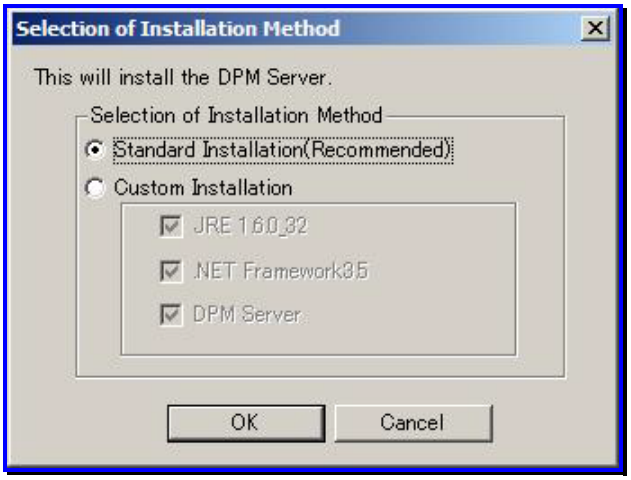
(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **DPM Server**.



(2) The **Selection of Installation Method** screen appears. Select **Standard Installation**, and click the **OK** button.
Clicking Cancel returns the screen to the **DeploymentManager Setup** screen.

Tips

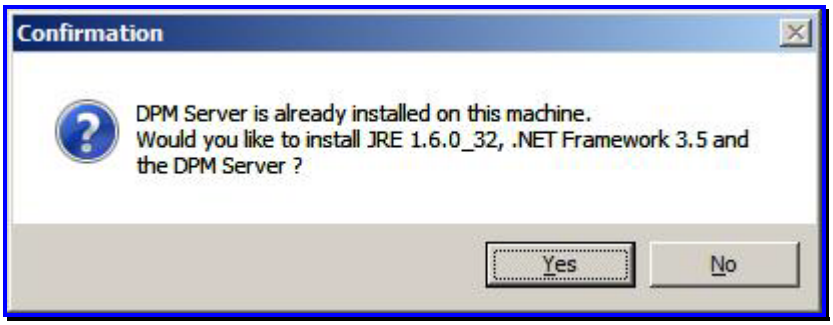
- The checked items will be installed in their listed order if **Custom Installation** is selected.
- In an environment where JRE is already installed, select **Custom Installation**, remove the checkmark from JRE, and click the **OK** button.
- In an environment in which .NET Framework is already installed, select **Custom Installation**, remove the checkmark from .NET Framework, and click **OK** button.



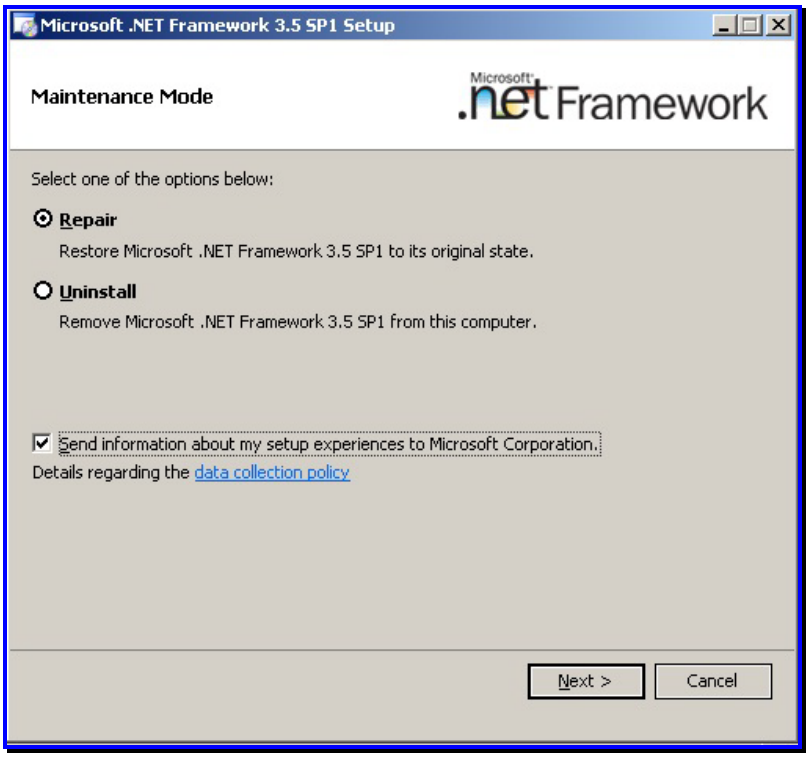
Note

If you want to upgrade the DPM Server on Windows Server 2008, select **Custom Installation**, remove the checkmark from .Net Framework, click the **OK** button, and proceed to Step (6).

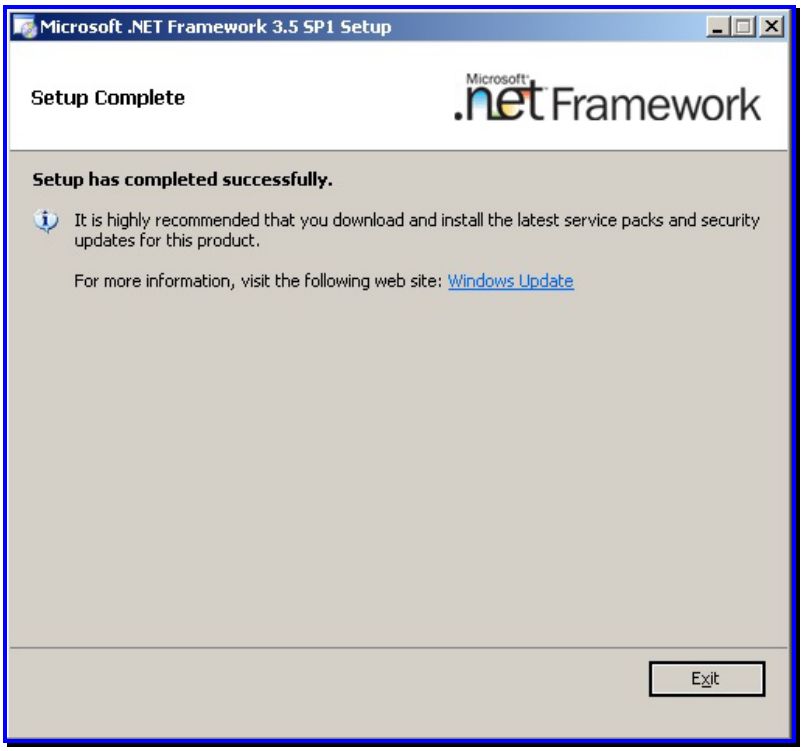
(3) The **Confirmation** screen appears. Click the **Yes** button.


Confirmation
DPM Server is already installed on this machine.
Would you like to install JRE 1.6.0_32, .NET Framework 3.5 and the DPM Server ?
Yes
No

(4) Wait until the installation of JRE is completed.
Next, the following screen appears. Select **Repair** and click the **Next** button.
(Remove the checkmark from the **Send information about my setup experiences to Microsoft Corporation** check box if you do not agree with the data collection policy).


Microsoft .NET Framework 3.5 SP1 Setup
Maintenance Mode
Microsoft .net Framework
Select one of the options below:
Repair
Restore Microsoft .NET Framework 3.5 SP1 to its original state.
Uninstall
Remove Microsoft .NET Framework 3.5 SP1 from this computer.
Send information about my setup experiences to Microsoft Corporation.
Details regarding the data collection policy
Next >
Cancel

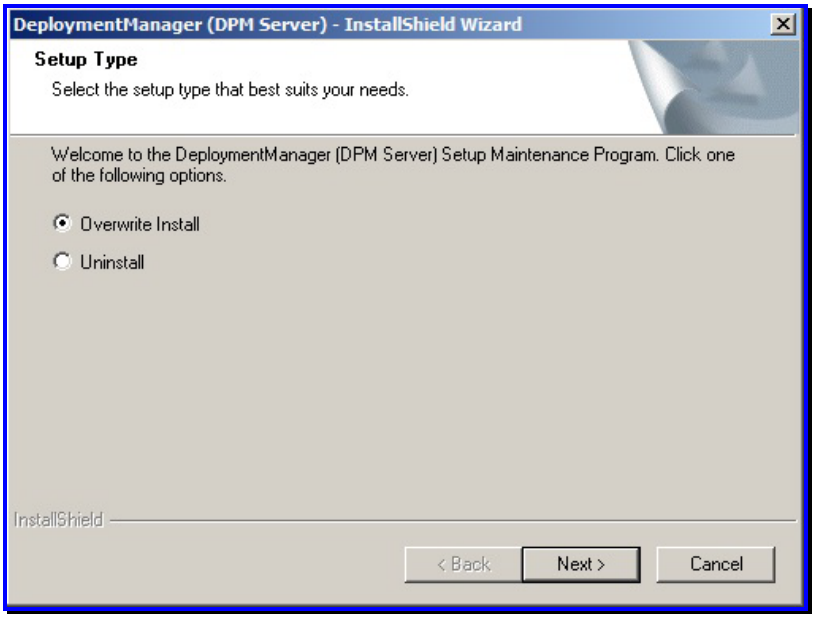
(5) The following screen appears. Click the **Exit** button.


Microsoft .NET Framework 3.5 SP1 Setup
Setup Complete
Microsoft .net Framework
Setup has completed successfully.
It is highly recommended that you download and install the latest service packs and security updates for this product.
For more information, visit the following web site: Windows Update
Exit

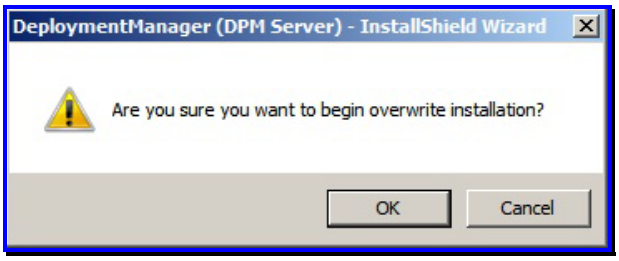
Note

- If a screen prompting you to restart the machine appears after you click the **Exit** button, restart the machine following the instructions on the screen.
- If you restart the machine, follow Steps (1) to (3), click on the **Cancel** button in Step (4), and then proceed to Step (6).

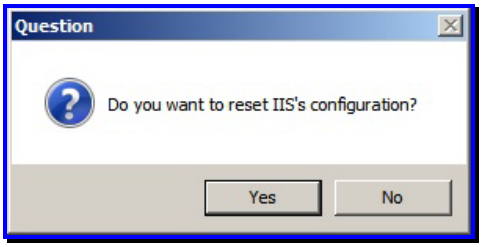
(6) The **Setup Type** screen appears. Check **Overwrite Install** and click the **Next** button.


DeploymentManager (DPM Server) - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Welcome to the DeploymentManager (DPM Server) Setup Maintenance Program. Click one of the following options.
Overwrite Install
Uninstall
InstallShield
< Back
Next >
Cancel

(7) A confirmation screen appears. Click the **OK** button.



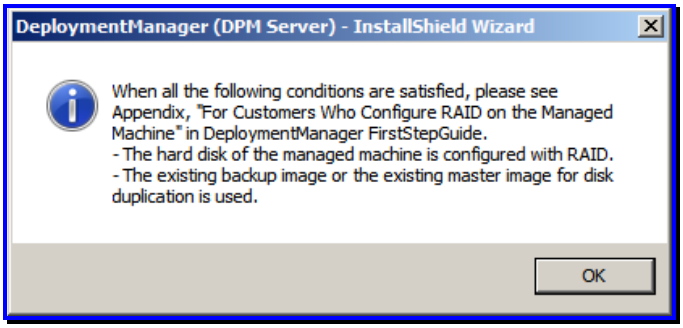
(8) Wait until the installation of database is completed.
Next, the IIS confirmation screen appears. Click the **Yes** button.



Tips

If you click the **No** button, it may fail to access IIS, and **DeploymentManager Login** screen may not appear. Please install the DPM Server again when it failed to access IIS .

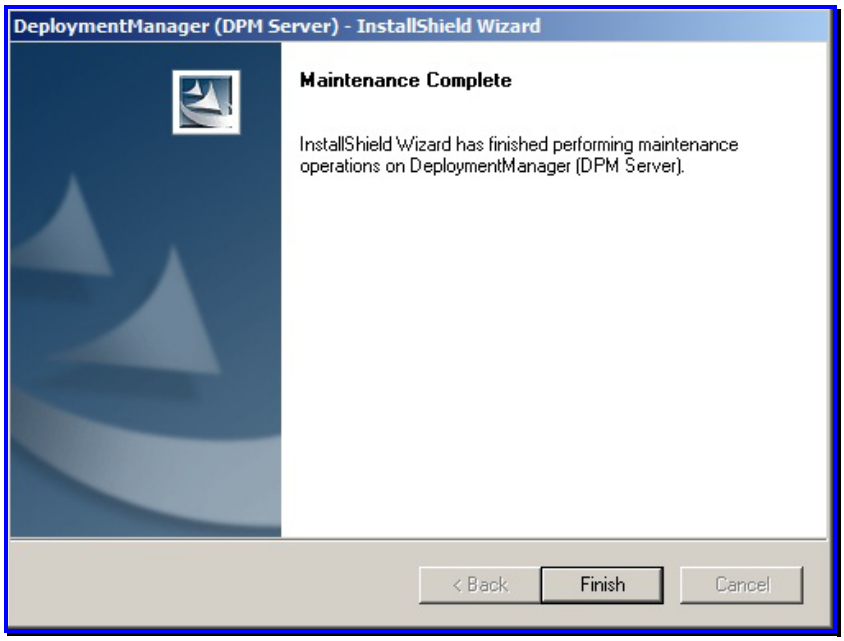
(9) The following screen appears. Click the **OK** button.


DeploymentManager (DPM Server) - InstallShield Wizard
When all the following conditions are satisfied, please see Appendix, "For Customers Who Configure RAID on the Managed Machine" in DeploymentManager FirstStepGuide.
- The hard disk of the managed machine is configured with RAID.
- The existing backup image or the existing master image for disk duplication is used.
OK

(10) The following screen appears. Click the **OK** button.

DeploymentManager (DPM Server) - InstallShield Wizard
When a new machine is added, please set Deploy-OS to the machine correctly, before executing a backup/restore scenario. After setting it, please execute Disk Configuration Check tool to make sure the set disk number is correct in the backup/restore scenario.
For information about setting Deploy-OS, see "Operations View" in DeploymentManager Reference Guide.
For information about confirming the disk number, see "Disk Configuration Check Tool" in DeploymentManager Reference Guide.
OK

(11) The **Maintenance Complete** screen appears. Click the **Finish** button.



Important

- If the module for the machine model was installed before upgrading, you need to install it again. About the module for the machine model, contact your sales or support representative.
  When you installed the following modules for the machine model, you do not need to install them again after upgrading.
  - DPM51_52_004
  - DPM51_52_007
  - DPM51_52_008
  - DPM51_52_009
  - DPM51_52_010
  - DPM51_52_011
  - DPM51_52_012
  - DPM51_52_013
- If you have set the cooperation between DPM's TFTP service and MasterScope Network Manager's TFTP service, you need to configure it again after upgrading the DPM Server. For the setting method, see Section Appendix E, "Using DPM Server and MasterScope Network Manager on the same machine."

Note

The screens that appear during the installation may vary according to the OS.

Tips

If the Windows Firewall/Internet Connection Sharing (ICS) service is running, the port required for the DPM Server will open automatically.
For details on the opened port, see Appendix D, "Network Port and Protocol List" in *Reference Guide*.

The upgrade of the DPM Server is completed.

3.3. Upgrading the DPM Client

The following describes how to upgrade the DPM Client.
Perform the upgrade process on the machine in which the DPM Client (Client Service for DPM on versions earlier than DPM Ver6.0) is installed.

The following lists the DPM versions subject to upgrade:
-DPM Ver4.0/4.1/4.2/4.3/5.0/5.1/5.2/6.0

This system supports an automatic upgrade method in which the DPM Client is automatically upgraded when you update the DPM Server. For details, see Section 3.3.1, "Automatically Upgrading the DPM Client."
Other methods for upgrading the DPM Client include upgrading from a scenario and upgrading from the install media. For procedure details, see Section 3.3.2, "Manually Upgrading the DPM Client."

3.3.1. Automatically Upgrading the DPM Client

What is Automatic DPM Client Upgrade?
Automatic DPM Client Upgrade is a function that automatically upgrades the DPM Client(Client Service for DPM in versions earlier than DPM Ver.6.0) when you upgrade the DPM Server. This function is a great convenience to reinstalling the DPM Client of this current version one by one.
The automatic upgrade is implemented when the machine with the installed DPM Client is started. At machine startup, the DPM Client starts up and communicates with the DPM Server. If the DPM Client version/revision differs from that of the DPM Server, the version/revision will be automatically upgraded.

Important

- If the DPM Client is not upgraded and the version is not matched with the DPM Server, scenarios about service packs, hotfixes, Linux patch files, and applications may not work properly. If you changed the port, old version of DPM Client cannot communicate, and backup/restore/disk configuration check/OS installation by disk duplication/scenario execution results list do not operate correctly. Be sure to upgrade the DPM Client to the same version/revision as the DPM Server.
- The system automatically upgrades the DPM Client only when **Upgrade DPM Client automatically** is checked on the **General** tab found by selecting **Management** view on the Web Console and clicking **DPM Server** -> **Detail Setting**.
- If you run a DPM client automatic upgrade, the System_AgentUpgrade_Unicast, System_LinuxAgentUpgrade_Unicast, or System_WinCEAgentUpgrade_Unicast scenarios managed internally by DPM will be automatically assigned. If another scenario was previously assigned, that scenario is released.
  The automatic upgrade scenario remains assigned as is after execution. If the released scenario specified a schedule is needed, be sure to reassign it after the automatic upgrade.
  Note that an automatic upgrade scenario cannot be executed manually.
- If the DPM Client was automatically upgraded on a Linux client, do not execute another scenario for a period of about two minutes after the scenario starts.

Note

- If the managed machine was started by scenario execution from a power OFF state, automatic upgrade is not performed.
- Automatic upgrade is treated as scenario execution, and thus the execution results appear on the **Scenario Execution Result List** screen.
- After automatic upgrade execution, the service of the DPM Client is restarted after ten to twenty seconds. If you execute another scenario during this scenario, a scenario execution error may occur.
- This procedure is for upgrading the DPM Client to the current version. The procedure cannot be used to newly install the DPM Client on a managed machine in which the DPM Client is not installed.
- While the following log may be outputted to the event log of the managed machine, operation will be unproblematic.
  ·DepAgent: Accept error code=10004
- The following log is sometimes outputted to the event log of the DPM Server: depssvc: Agent Upgrade Error MAC : Sts = (MAC address)
  This log means that, for some reason, the attempt to automatically install the DPM Client on the displayed managed machine failed.
  If this happens, execute the scenario for upgrading the DPM Client.

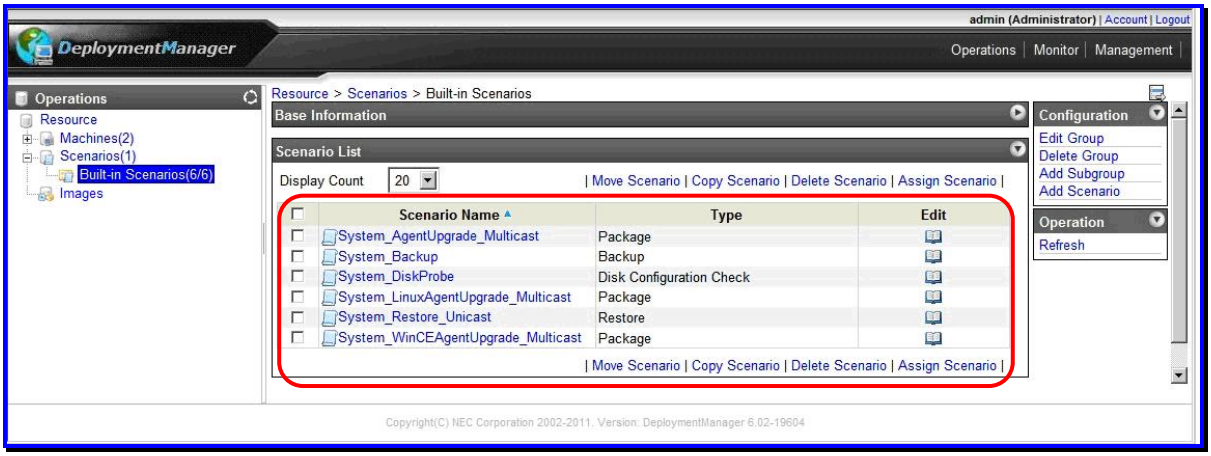
Tips

- If it is difficult to restart the managed machine on which the DPM Client is installed, restart the following services. Automatic upgrade can be performed.
  - DPM Client(Windows)
    - DeploymentManager Remote Update Service Client
  - DPM Client(Linux)
    - Depagt
- When either of the services below is running, the port and program required for the DPM client will open automatically. (For details on the opened port and program, see Appendix D, "Network Port and Protocol List" in *Reference Guide*).
  ·Windows Firewall/Internet Connection Sharing (ICS)
  ·Windows Firewall

3.3.2. Manually Upgrading the DPM Client

■ Upgrading the DPM Client from a Scenario

What Does It Mean to Upgrade the DPM Client from a Scenario?
Aside from the automatic DPM Client upgrade, a scenario for upgrading the DPM Client (Client Service for DPM in versions earlier than DPM Ver6.0) is registered in the system in advance. You can upgrade the DPM Client by executing this scenario.



*System_AgentUpgrade_Multicast is the upgrade scenario for Windows (x86/x64).
(NEC US110 is excluded).
System_LinuxAgentUpgrade_Multicast is the upgrade scenario for Linux (x86/x64).
System_WinCEAgentUpgrade_Multicast is the upgrade scenario for (ARMv4i) NEC US110.

Note

■ Change the **Maximum Targets** and **Maximum Waiting Time** in accordance with the environment used.
If you change any item other than the above, the DPM Client may not be upgraded. In particular, be sure to specify the Execution Time Setting as **Execute Immediately After Distribution**.

■ The DPM Client is upgraded after the upgrade scenario ends. Normally, this processing will take about tens of seconds. During this period, do not execute another scenario.

- DPM Client upgrade by install media

・Windows(x86/x64)
The following describes how to upgrade the DPM Client from the install media [Windows (x86/x64)].
(NEC US110 is excluded).

Log on to the machine to be upgraded by user with Administrator authority.

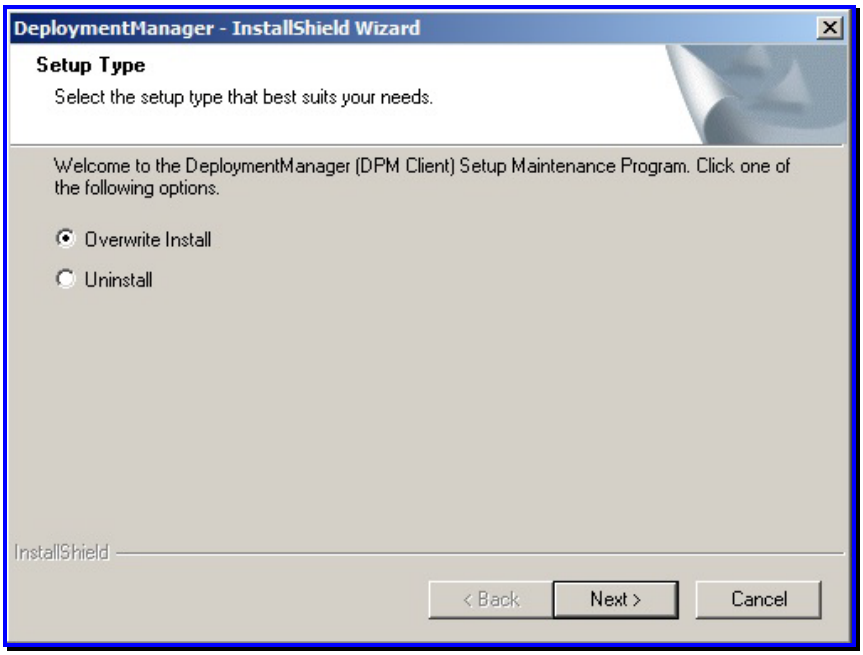
(1) Insert the install media into the DVD drive.
If the Installer starts, click the **Exit** button to close the screen.

(2) From Explorer, etc., execute the following files located on the install media.
For SSC product: <Install media>:\DPM\TOOLS\SERVICES\IA32\setup.exe
For DPM unbundled product: <Install media>:\TOOLS\SERVICES\IA32\setup.exe

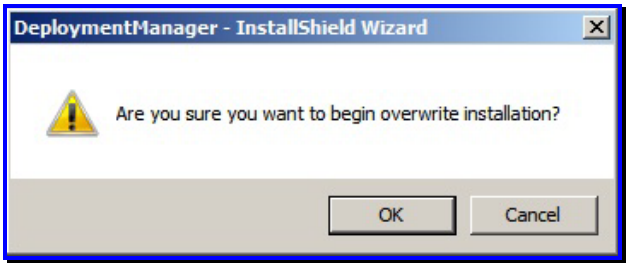
Tips

You can install the DPM Client by copying the contents of the folders located on the install media to the managed machine and executing setup.exe.
·For SSC product: <Install media>:\DPM\TOOLS\SERVICES\IA32
·For DPM unbundled product:<Install media>:\TOOLS\SERVICES\IA32

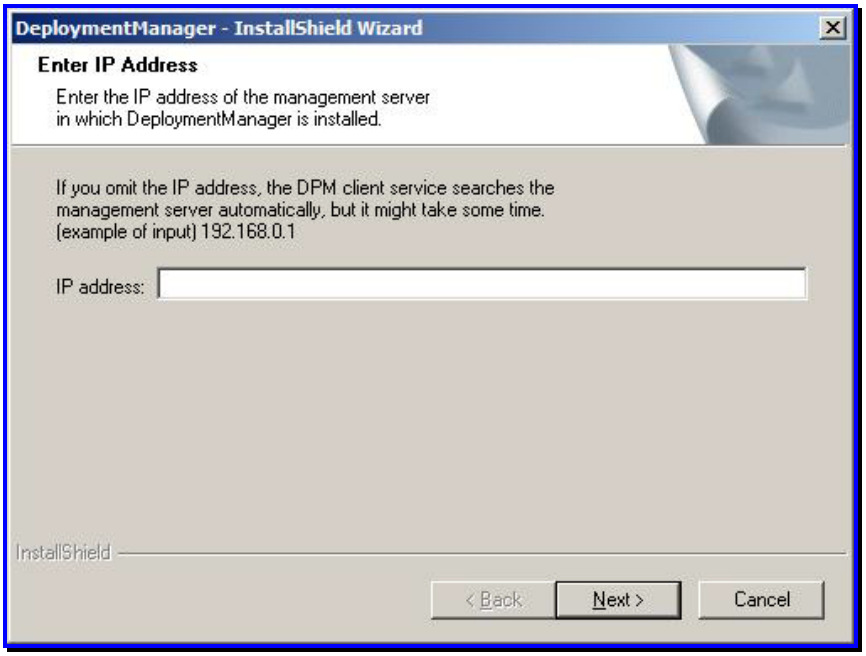
(3) The **Setup Type** screen appears. Check **Overwrite Install** and click the **Next** button.


DeploymentManager - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Welcome to the DeploymentManager (DPM Client) Setup Maintenance Program. Click one of the following options.
Overwrite Install
Uninstall
InstallShield
< Back
Next >
Cancel

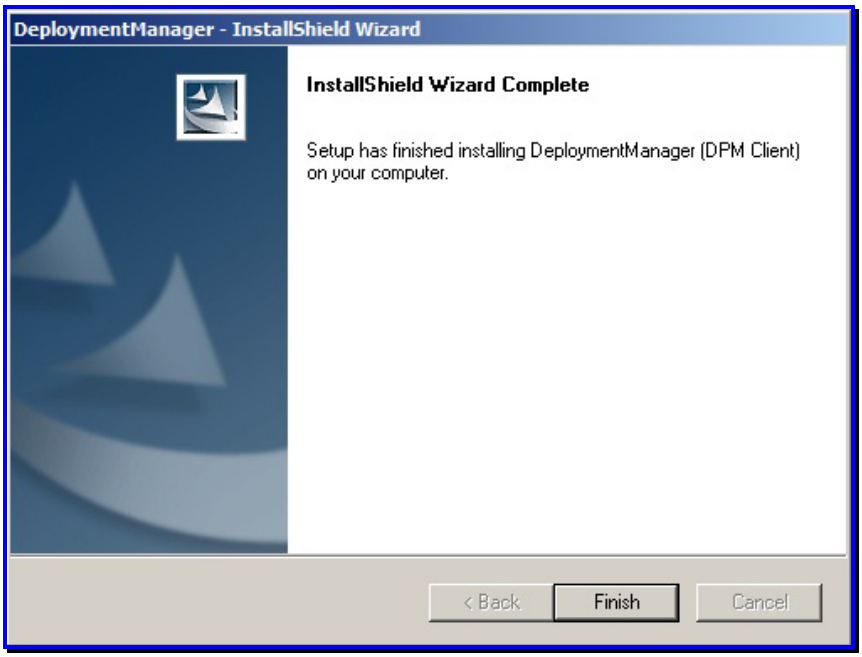
(4) A confirmation screen appears. Click the **OK** button.



(5) The **Enter IP Address** screen appears. Enter the IP address of the Management Server where the DPM Server is installed, and click the **Next** button. If IP address is omitted, the DPM Client searches the Management Server automatically after the installation is completed. It may take some time to search.


DeploymentManager - InstallShield Wizard
Enter IP Address
Enter the IP address of the management server in which DeploymentManager is installed.
If you omit the IP address, the DPM client service searches the management server automatically, but it might take some time.
(example of input) 192.168.0.1
IP address:
InstallShield
< Back
Next >
Cancel

(6) The **InstallShield Wizard Complete** screen appears. Click the **Finish** button.



Note

- The screens that appear during installation may vary somewhat, depending on the OS.
- In **Programs and Features** displays the capacity of the folder in which the application was installed. The DPM Client displays a larger capacity than the actual capacity since it is installed under the system folder.

Tips

See Appendix A, "Silent Installation" to execute silent installation, which does not require you to enter the IP address of the Management Server or to perform key operations during installation.
If either of the services below is running, the port and the program required for the DPM Client will be opened automatically.
(For details on the opened port and program, see Appendix D, "Network Port and Protocol List" in *Reference Guide*).

·Windows Server 2003: Windows Firewall/Internet Connection Sharing(ICS)
·Windows Server 2008: Windows Firewall

The upgrade of the DPM Client (x86/x64) is completed.

·Linux
The method used to upgrade the DPM Client (Linux) from the install media is the same as that for a new installation. See Section 2.2.2, "Installing the Linux (x86/x64) Version."

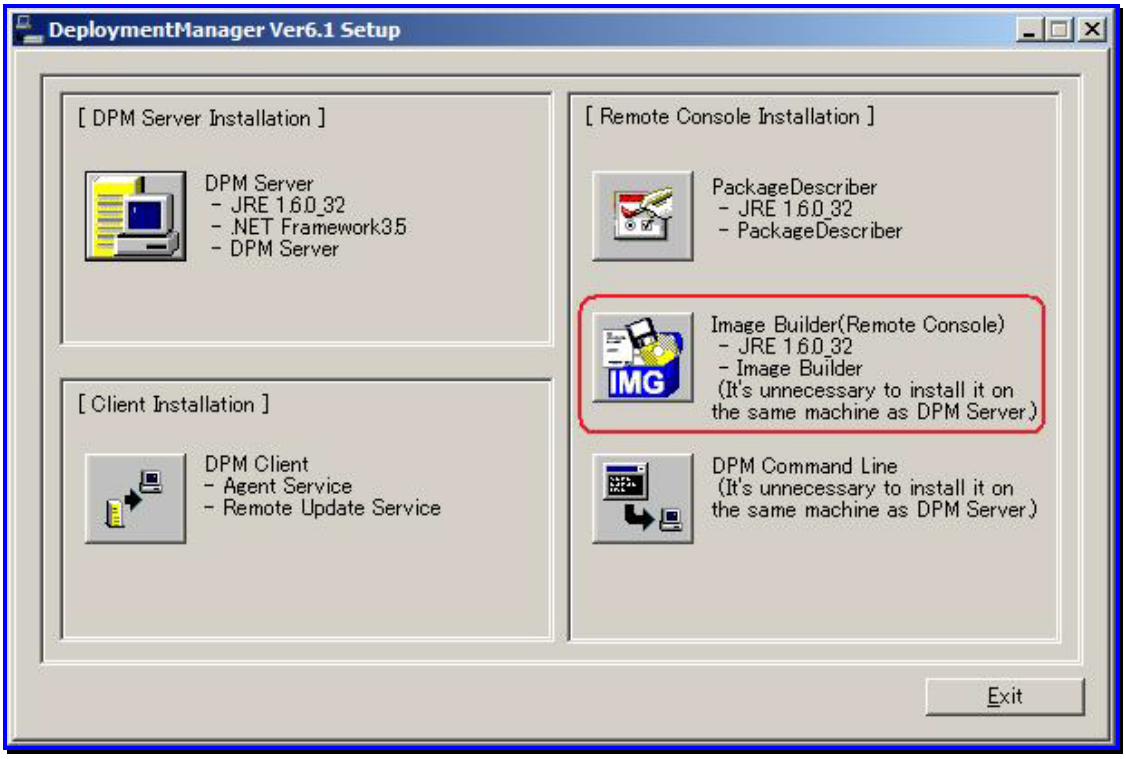
·NEC US110
NEC US110 cannot be upgraded from the install media. If an upgrade installation is necessary, the automatic upgrade function of the DPM Client automatically performs an upgrade.

3.4. Upgrade install of Image Builder (Remote Console)

The following describes how to upgrade Image Builder (Remote Console).

Log on to the machine to be upgraded by user with Administrator authority.

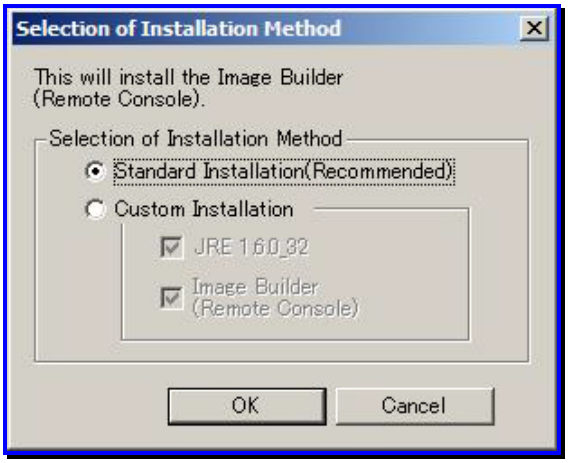
(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **Image Builder(Remote Console)**.



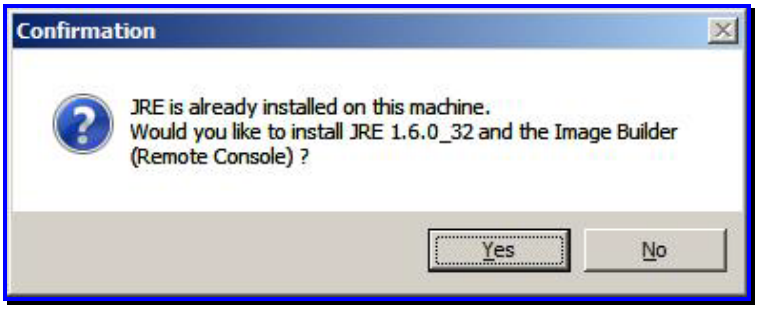
(2) The **Selection of Installation Method** screen appears. Select **Standard Installation**, and click the **OK** button. Clicking **Cancel** returns the screen to the **DeploymentManager Setup** screen.

Tips

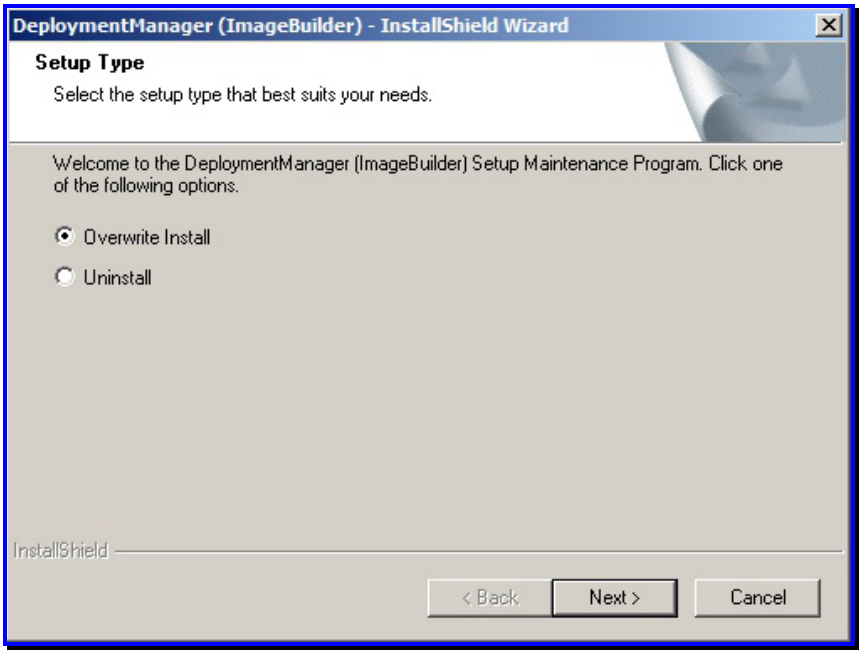
In an environment where JRE is already installed, select **Custom Installation**, remove the checkmark from JRE, and click the **OK** button.



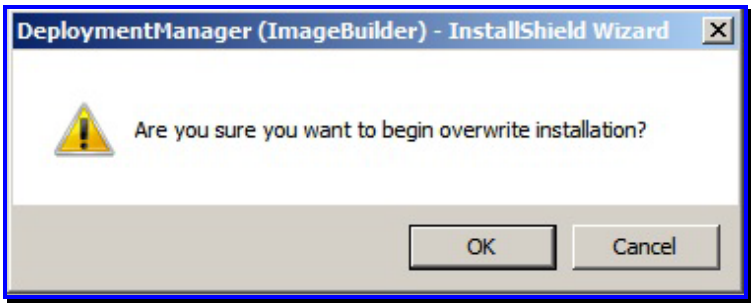
(3) The **Confirmation** screen appears. Click the **Yes** button.


Confirmation
JRE is already installed on this machine.
Would you like to install JRE 1.6.0_32 and the Image Builder (Remote Console) ?
Yes
No

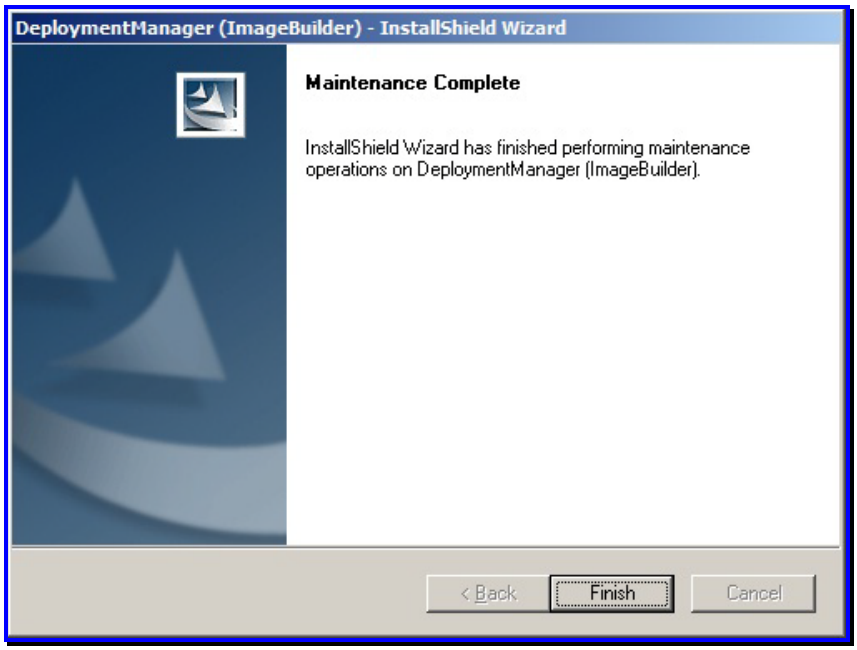
(4) Wait until the installation of JRE is completed.
Next, the **Setup Type** screen appears. Check **Overwrite Install** and click the **Next** button.


DeploymentManager (ImageBuilder) - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Welcome to the DeploymentManager (ImageBuilder) Setup Maintenance Program. Click one of the following options.
Overwrite Install
Uninstall
InstallShield
< Back
Next >
Cancel

(5) A confirmation screen appears. Click the **OK** button


DeploymentManager (ImageBuilder) - InstallShield Wizard
Are you sure you want to begin overwrite installation?
OK
Cancel

(6) The **Maintenance Complete** screen appears. Click the **Finish** button.



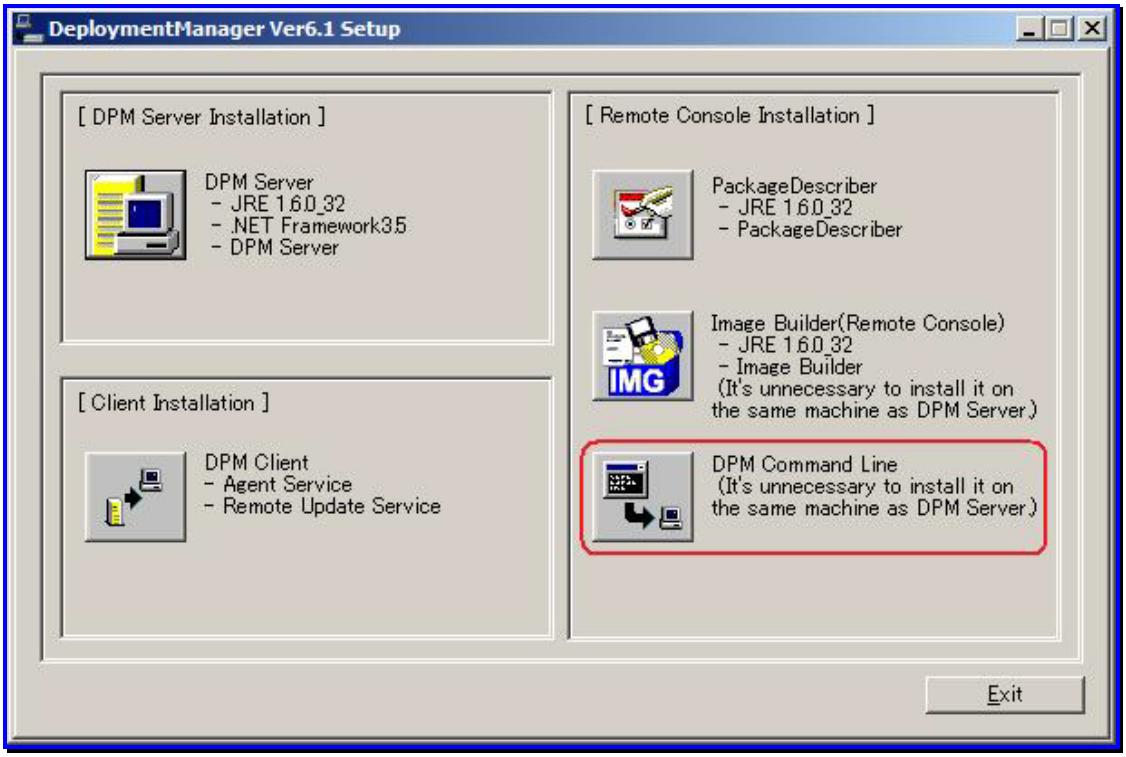
The upgrade of the Image Builder (Remote Console) is completed.

3.5. Upgrading DPM Command Line

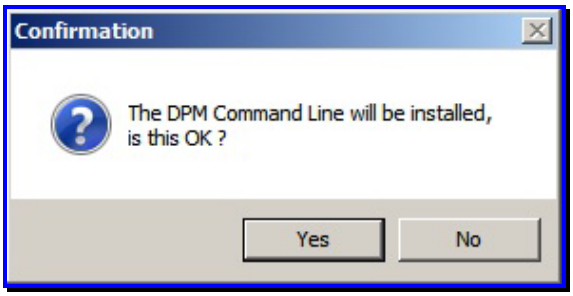
The following describes how to upgrade DPM Command Line.
Perform the upgrade process on the machine in which DPM Command Line (Command Line for DPM on versions earlier than DPM Ver6.0) is installed.

Log on to the machine to be upgraded by user with Administrator authority.

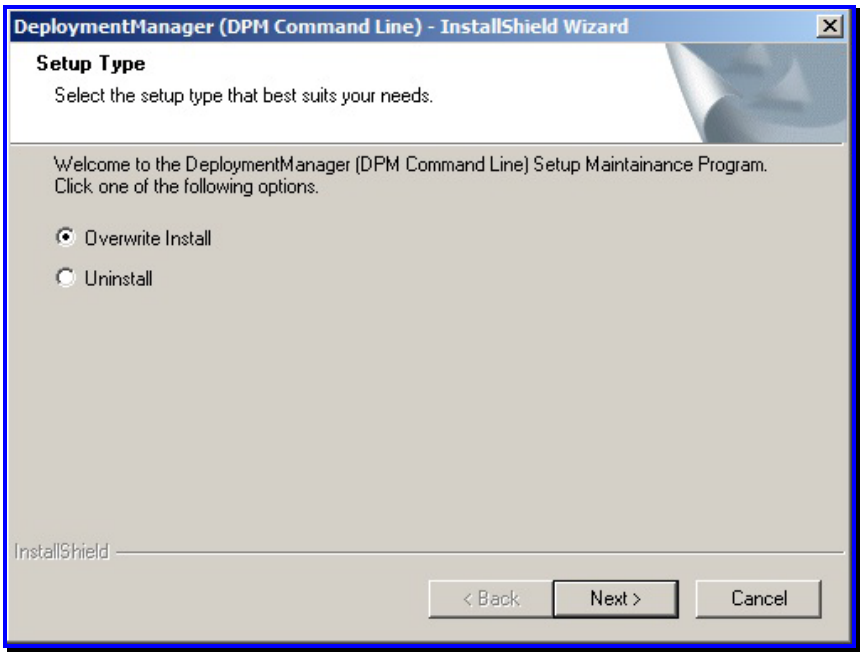
(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **DPM Command Line**.



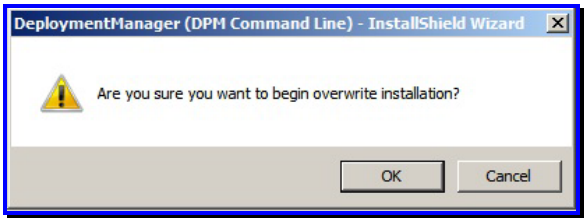
(2) The **Confirmation** screen appears. Click the **Yes** button.



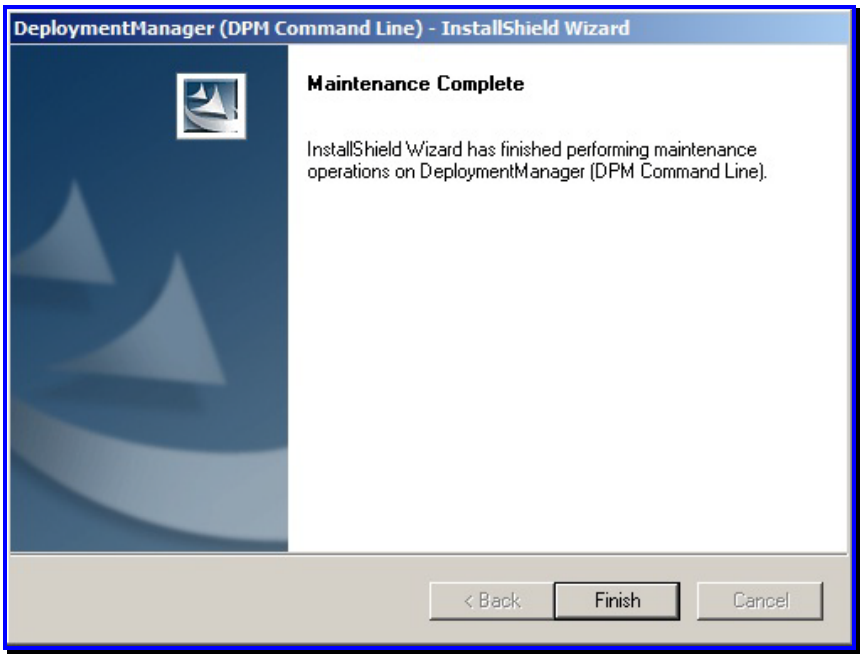
(3) The **Setup Type** screen appears. Check **Overwrite Install** and click the **Next** button.


DeploymentManager (DPM Command Line) - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Welcome to the DeploymentManager (DPM Command Line) Setup Maintainance Program.
Click one of the following options.
Overwrite Install
Uninstall
InstallShield
< Back
Next >
Cancel

(4) A confirmation screen appears. Click the **OK** button.


DeploymentManager (DPM Command Line) - InstallShield Wizard
Are you sure you want to begin overwrite installation?
OK
Cancel

(5) The **Maintenance Complete** screen appears. Click the **Finish** button.


DeploymentManager (DPM Command Line) - InstallShield Wizard
Maintenance Complete
InstallShield Wizard has finished performing maintenance operations on DeploymentManager (DPM Command Line).
< Back
Finish
Cancel

The upgrade of the DPM Command Line is completed.

3.6. Upgrading PackageDescriber

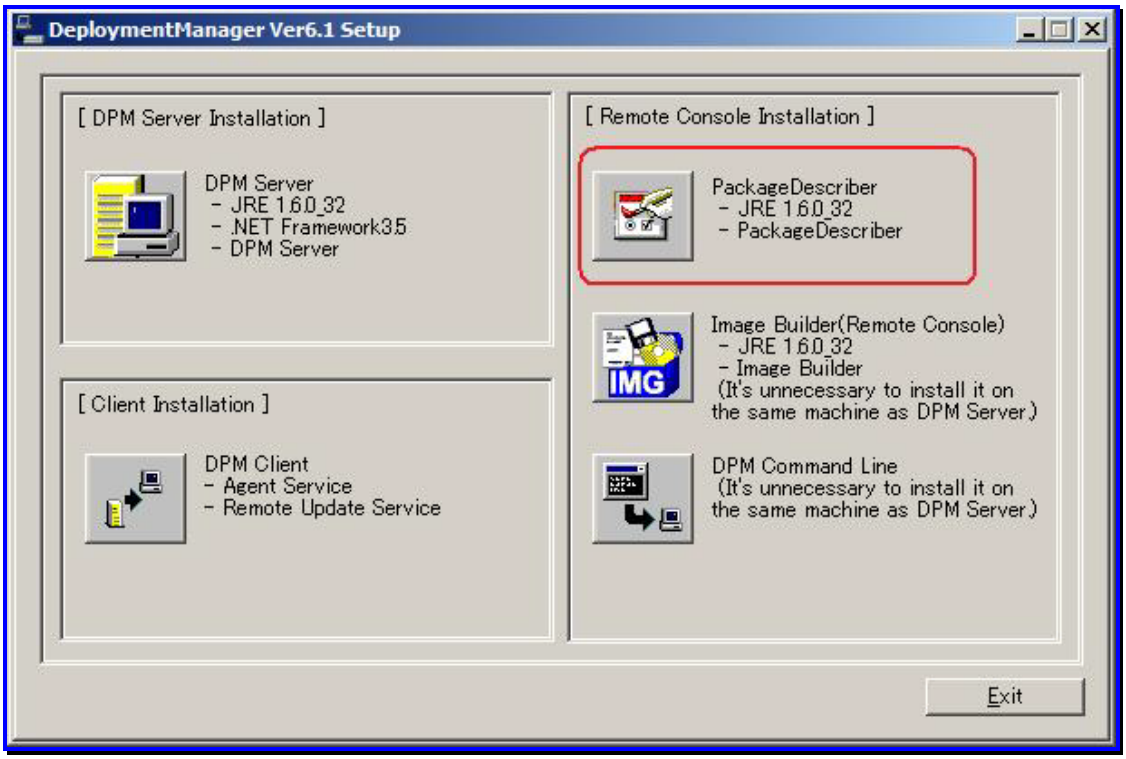
The following describes how to upgrade PackageDescriber.

Note

After you perform an upgrade installation, you need to re-do the initial setup as noted in "Section 6. Package Describer" in *Reference Guide*.

Log on to the machine to be upgraded by user with Administrator authority.

(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **PackageDescriber**.



Note

If you want to upgrade PackageDescriber in an environment where UAC is enabled on Windows Vista, be sure to follow the procedure below.

(1)On the **DeploymentManager Setup Screen**, click the **Exit** button.

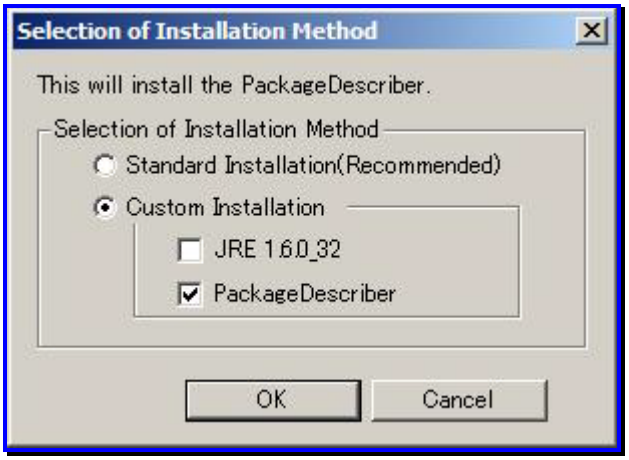
(2)Using Explorer, etc., right-click the following files and select **Run as Administrator**.

·For SSC product: <Install media>:\DPM\Launch.exe

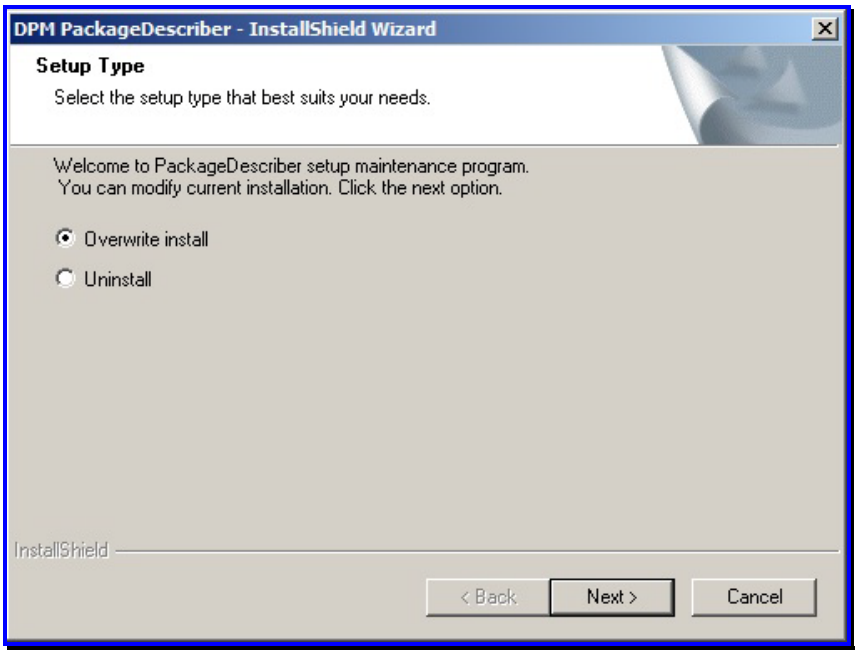
·For DPM unbundled product: <Install media>:\Launch.exe

(3)The **DeploymentManager Setup** screen appears again. Select **PackageDescriber**.

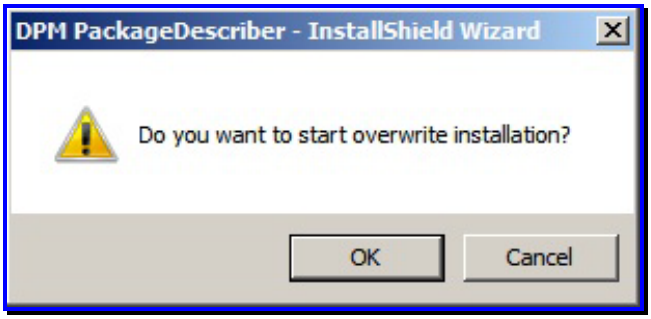
(2) The **Selection of Installation Method** screen appears. Select **Custom Installation**, remove the checkmark from JRE, and click the **OK** button.
Clicking **Cancel** returns the screen to the **DeploymentManager Setup** screen.



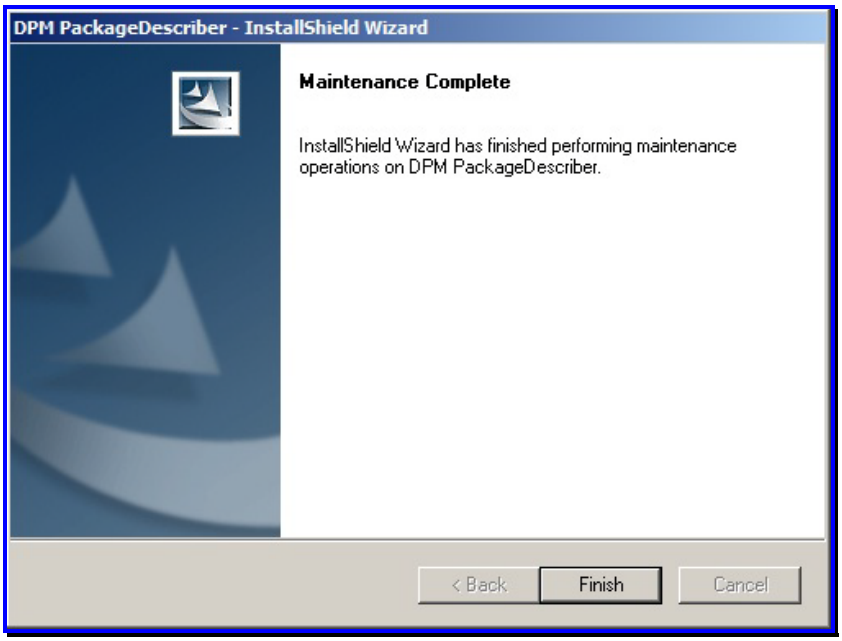
(3) The **Setup Type** screen appears. Check **Overwrite Install** and click the **Next** button.


DPM PackageDescriber - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Welcome to PackageDescriber setup maintenance program.
You can modify current installation. Click the next option.
Overwrite install
Uninstall
InstallShield
< Back
Next >
Cancel

(4) An overwrite confirmation screen appears. Click the **OK** button.



(5) The **Maintenance Complete** screen appears. Click the **Finish** button.



The upgrade of PackageDescriber is completed.

Note

If you change the Java settings, you need to restart the machine to enable the changes before using PackageDescriber.

Tips

You can overwrite PackageDescriber from the **Programs and Features** screen of Control Panel as well.
In DPM Package Describer, select the **Change** button to display the **Setup Type** screen of PackageDescriber. Then, overwrite PackageDescriber by following the above Steps (3) to (5).

4. Uninstalling DPM

This chapter describes how to uninstall DPM.

4.1. Before Uninstalling DPM

4.1.1. Uninstall Precautions

The following describes how to uninstall each function of DPM.
Before starting the uninstall process, finish DPM related tasks.
If Event Viewer is running, close Event Viewer as well.

4.2. Uninstalling the DPM Server

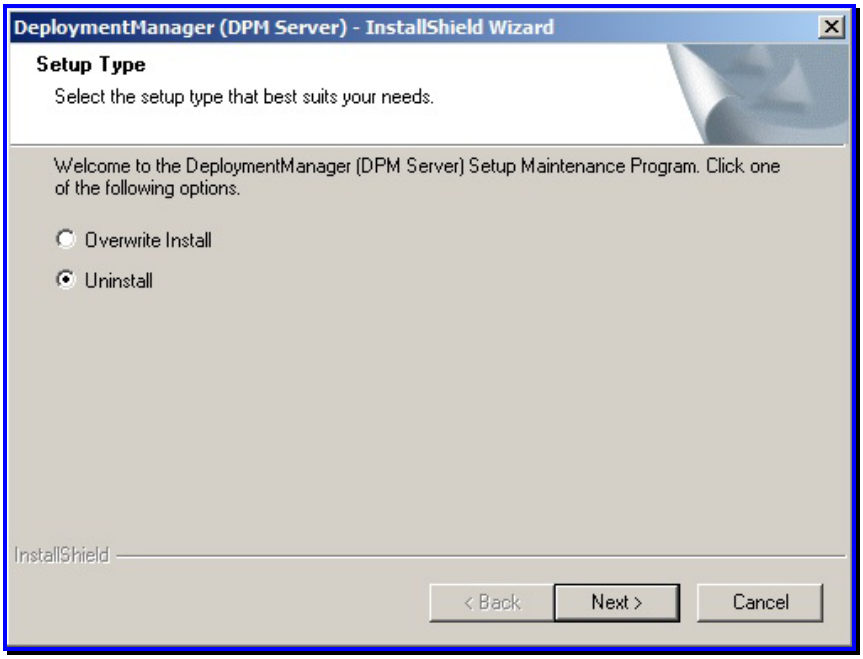
If you want to uninstall the DPM Server, follow the procedure below.

Note

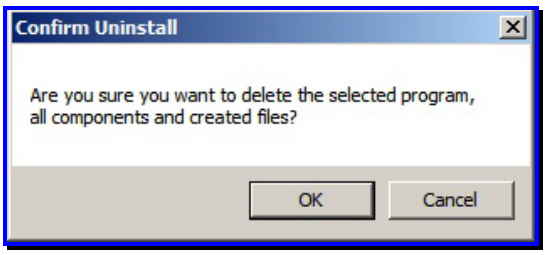
Do not execute the uninstall process from the **Programs and Features** screen.
If do so may not uninstall the program properly.

Log on to the machine where the program is to be uninstalled using a user with Administrator authority.

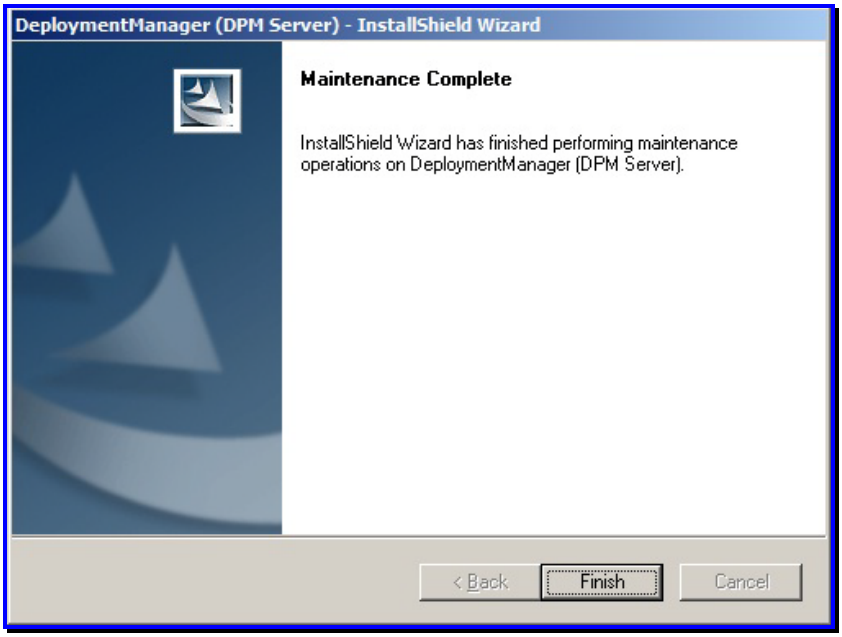
(1) From the **Start** menu of the Management Server, select **All Programs** -> **DeploymentManager** -> **Uninstall DPM Server**. The **Setup Type** screen appears. Select **Uninstall** and click the **Next** button.


DeploymentManager (DPM Server) - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Welcome to the DeploymentManager (DPM Server) Setup Maintenance Program. Click one of the following options.
Overwrite Install
Uninstall
InstallShield
< Back
Next >
Cancel

(2) The **Confirm Uninstall** screen appears. Click the **OK** button.



(3) The **Setup Status** screen appears and the uninstall process begins. When the **Maintenance Complete** screen appears, click the **Finish** button.



If the components below are not used by other applications, uninstall the components.

■ Uninstalling the Microsoft SQL Server 2008 R2 Native Client
Uninstall the Native Client by following the procedure below.

1) From the **Start** menu, select **Control Panel** -> **Programs and Features**.
2) The **Programs and Features** screen appears. Select **Microsoft SQL Server 2008 R2 Native Client** from the **Programs and Features** screen and click **Uninstall**.

■ If you upgraded the program from a version prior to DPM Ver6.0, please uninstall the following components using the same process as uninstall the Microsoft SQL Server 2008 R2 Native Client.

- Microsoft SQL Server 2005
- Microsoft SQL Server Native Client
- Microsoft SQL Server VSS Writer
- Microsoft SQL Server setup support files (English)

4.3. Uninstalling the DPM Client

The following describes how to uninstall the DPM Client.

4.3.1. Uninstalling the Windows (x86/x64) Version

There are two ways to uninstall the DPM Client (Windows (x86/x64): from the command prompt, and from **Programs and Features**.

Note

- In either case below, perform the uninstall process seeing the section, "Uninstalling the DPM Client from Programs and Features." In all other cases, perform the uninstall process seeing the section, "Uninstalling the DPM Client from the Command Prompt."
  - ·When **DeploymentManager** appears on the **Programs and Features** screen
  - ·Windows Server 2008 (Server Core install)
- Do not uninstall immediately after installation of the DPM Client or starting the client services. If the processing for searching the Management Server is running, the DPM Client may not be uninstalled correctly.

- Uninstalling the DPM Client from the Command Prompt

Note

For the x64 architecture machine, read "system32" as "SysWOW64", and proceed with operations.

Log on to the machine where the program is to be uninstalled using a user with Administrator authority.

(1) Start the command prompt and move to the folder where the DPM Client is installed.
cd /d %systemroot%\system32

(2) From the command prompt, execute the commands in the following order to uninstall the remote update service.
rupdsvc.exe –remove
del rupdsvc.exe
del clisvc.ini

(3) From the command prompt, execute the commands in the following order to uninstall the agent service.
depagent.exe -remove
del depagent.exe
del depagent.dll
del depinfo.dll

(4) From the command prompt, execute the following commands to uninstall the automatic update status display tool.
del DPMtray.exe

(5) From the **Start** menu, move to the Programs folder.
cd %allusersprofile%\Start Menu\Programs

(6) From the command prompt, execute the following command to delete the shortcut to the automatic update status display tool.
rmdir /s /q DeploymentManager

Tips

If the shortcut of the Automatic Update Status Display tool has not been created, when the above mentioned command is executed, though an error is displayed, there is no problem. Finish the command prompt.

■ Uninstalling the DPM Client from Programs and Features.

(1) From the **Start** menu, select **Control Panel** -> **Programs and Features** -> **DeploymentManager** -> **Remove**.

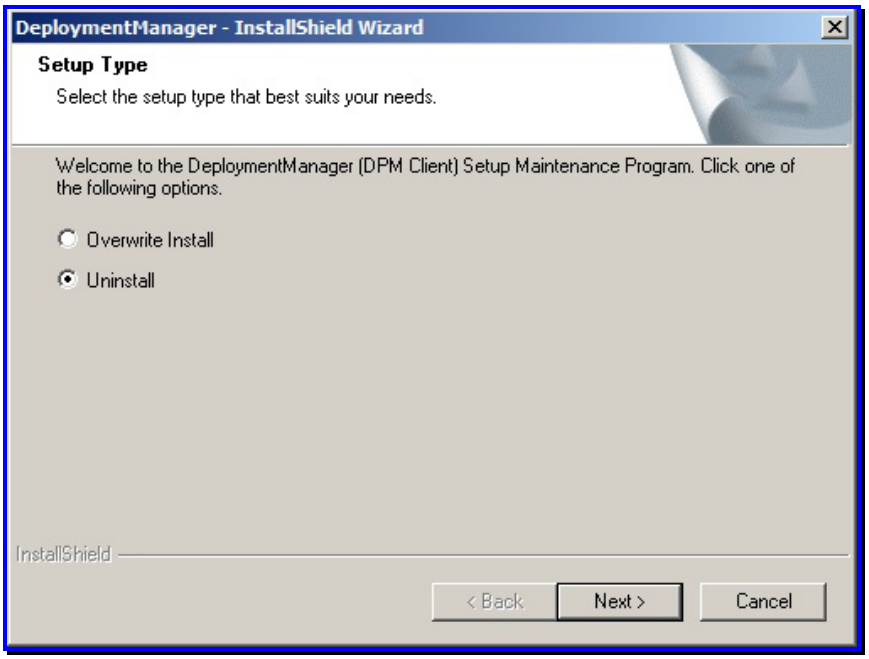
Tips

For Windows Server 2008(Server Core installation), this is not displayed in **Programs and Features**, so please run the following file from the command line.

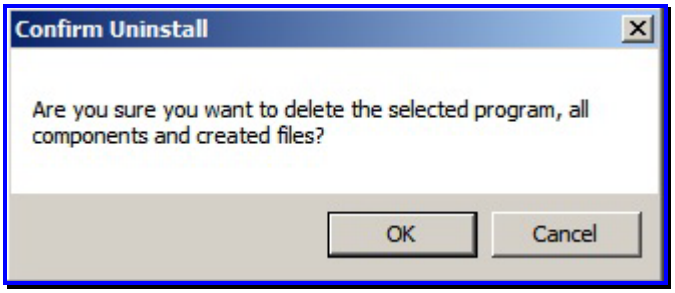
·For x86:
"%SystemDrive%\Program Files\InstallShield Installation Information\{6F68AC00-5FFD-42DE-B52E-D690D3DD4278}\setup.exe" -runfromtemp -l0x0011uninstall -removeonly

·For x64:
"%SystemDrive%\Program Files(x86)\InstallShield Installation Information\{6F68AC00-5FFD-42DE-B52E-D690D3DD4278}\setup.exe" -runfromtemp -l0x0011uninstall -removeonly

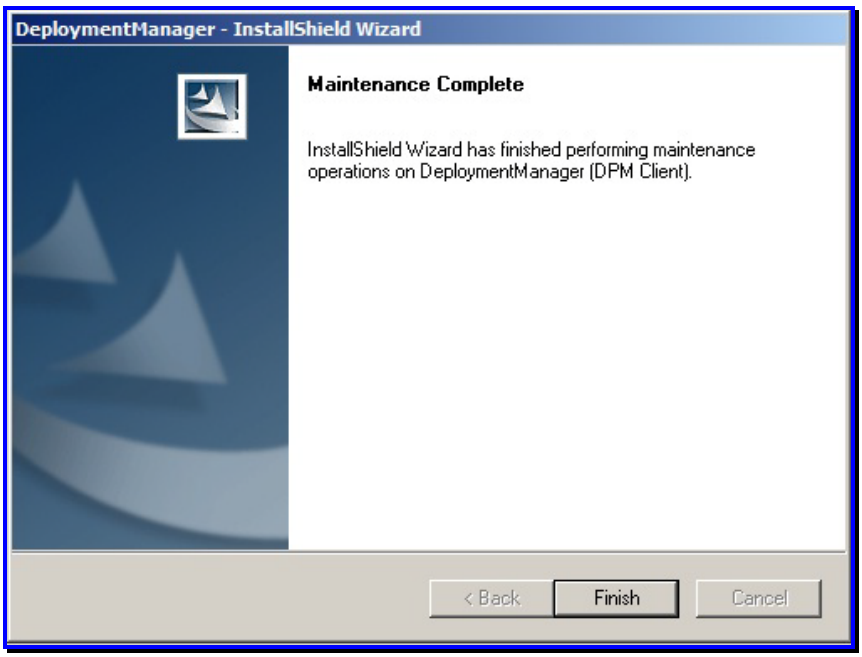
(2) The **Setup Type** screen appears. Select **Uninstall** and click the **Next** button.


DeploymentManager - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Welcome to the DeploymentManager (DPM Client) Setup Maintenance Program. Click one of the following options.
Overwrite Install
Uninstall
InstallShield
< Back
Next >
Cancel

(3) The **Confirm Uninstall** screen appears. Click the **OK** button.



(4) When the **Maintenance Complete** screen appears. Click the **Finish** button.



Note

It is possible that the file will still be removed even if you select the **Cancel** button during the uninstall process. If this happens, insert the install media in the DVD drive, and overwrite install the DPM Client. After this, please re-uninstall.

4.3.2. Uninstalling the Linux (x86/x64) Version

The following describes how to uninstall the DPM Client [Linux (x86/x64) version].

(1) Log in to the machine where the DPM Client (Linux) is installed as root account.

(2) Insert the install media into the DVD drive.

(3) Mount the install media.
mount <DVD drive to mount>

Tips

For more information about using the mount command, please see the manual of used OS.

(4) Enter the following command to change the current directory.

Tips

- For SSC product: # cd /mnt/dvd/DPM/Linux/ia32/bin/agent
- For DPM unbundled product: # cd /mnt/dvd/Linux/ia32/bin/agent

(5) Execute depuninst.sh.
#./depuninst.sh

Tips

Depending on the execution environment, if you don't have the execute permission of depunist.sh on the install media, you may not be able to execute it.
In this case, copy the DPM client module in the Linux directory on the install media to the correct directory on the hard disk, and then execute chmod command like the example below to grant permission for all of the files and then run depuninst.sh.

Example)
cd /mnt/*copy destination directory*/agent
chmod 755 *

* The save location for the DPM client installer is as below.
For SSC product: <Install media>:/DPM/Linux/ia32/bin/agent
For DPM unbundled product: <Install media>:/Linux/ia32/bin/agent

4.4. Uninstalling Image Builder (Remote Console)

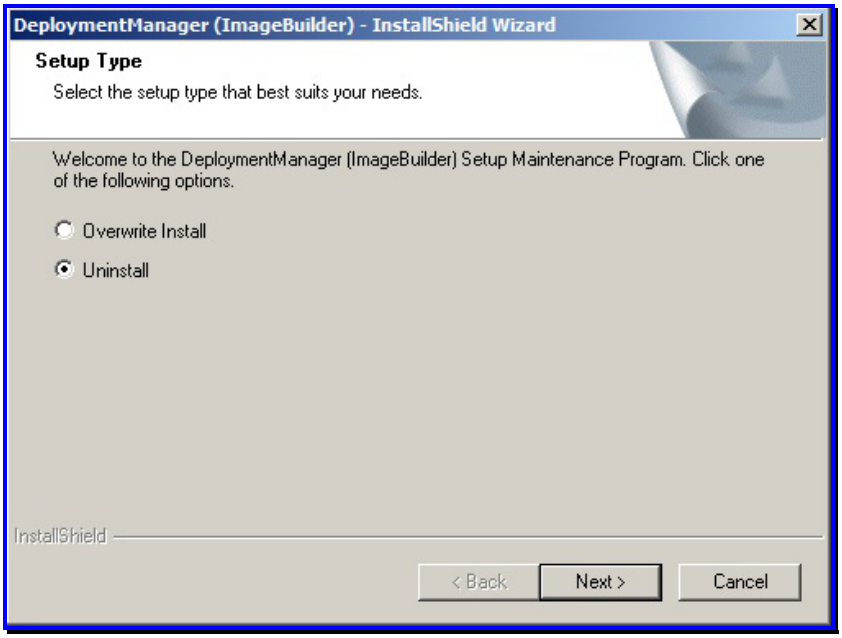
If you want to uninstall Image Builder (Remote Console), follow the procedure below.

Note

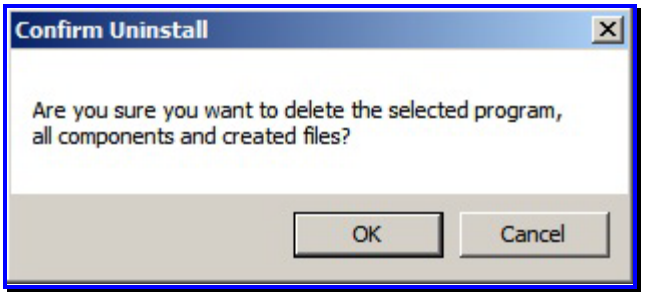
Do not execute the uninstall process from the **Programs and Features** screen. Doing so may not uninstall the program properly.

Log on to the machine where the program is to be uninstalled using a user with Administrator authority.

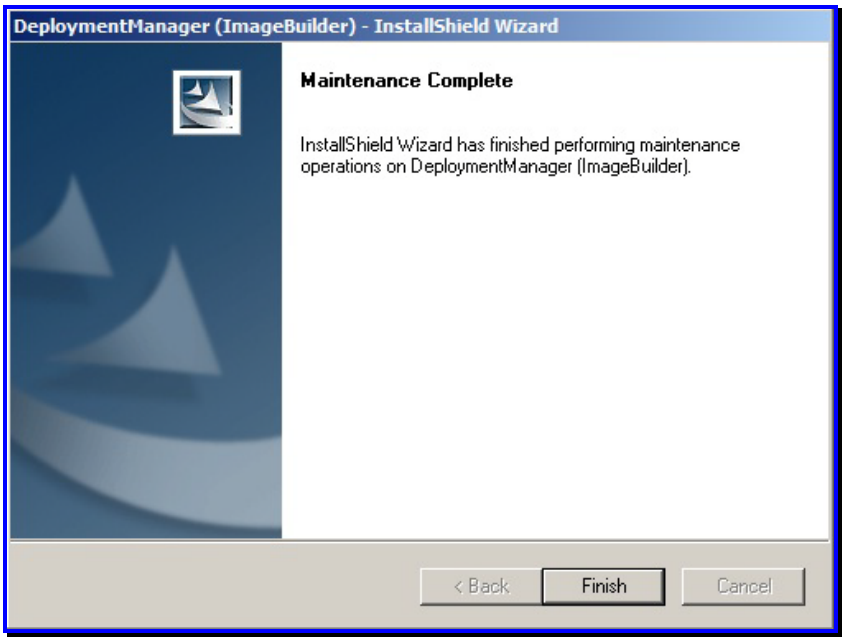
(1) From the **Start** menu of the machine where Image Builder (Remote Console) is installed, select **All Programs** -> **DeploymentManager** -> **Uninstall Image Builder**. The **Setup Type** screen appears. Select **Uninstall** and click the **Next** button.


DeploymentManager (ImageBuilder) - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Welcome to the DeploymentManager (ImageBuilder) Setup Maintenance Program. Click one of the following options.
Overwrite Install
Uninstall
InstallShield
< Back
Next >
Cancel

(2) The **Confirm Uninstall** screen appears. Click the **OK** button.



(3) When the **Maintenance Complete** screen appears, click the **Finish** button.



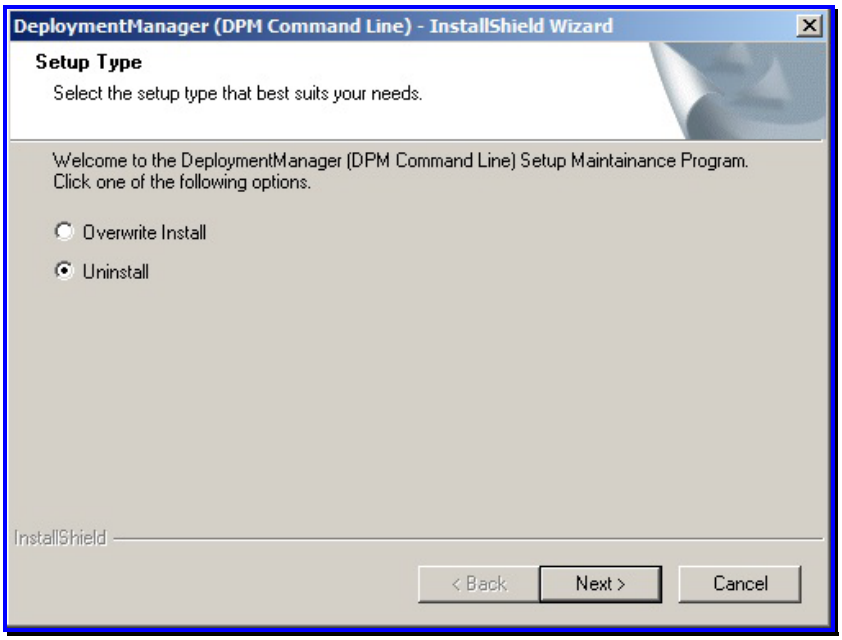
4.5. Uninstalling DPM Command Line

The following describes how to uninstall DPM Command Line.

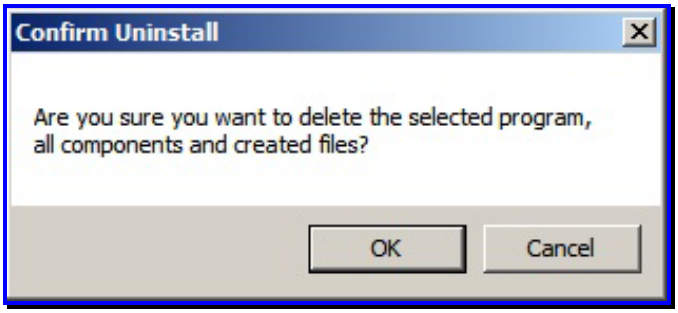
Log on to the machine where the program is to be uninstalled using a user with Administrator authority.

(1) From the **Start** menu, select **Control Panel** -> **Programs and Features** -> **DeploymentManager (DPM command line)** -> and click the **Remove** button.

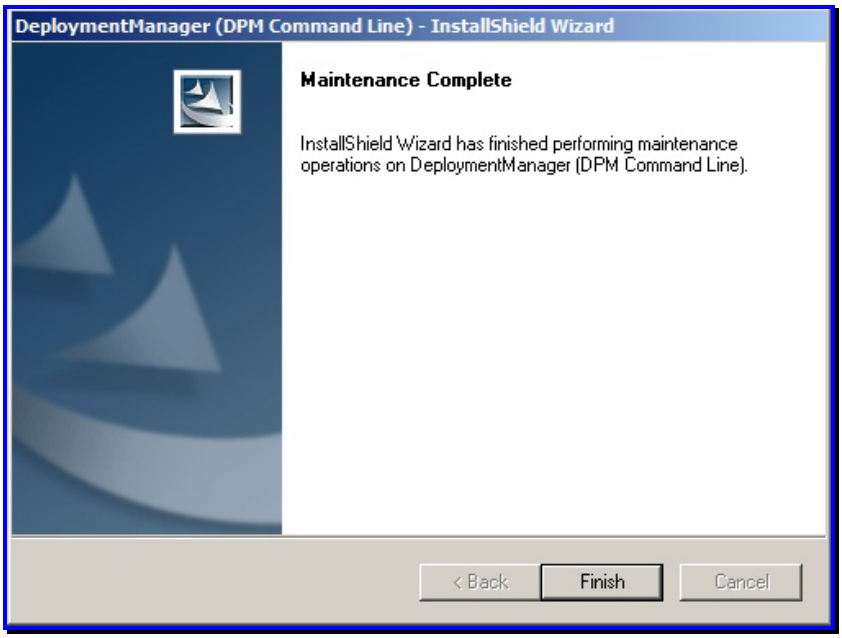
(2) The **Setup Type** screen appears. Select **Uninstall** and click the **Next** button.


DeploymentManager (DPM Command Line) - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Welcome to the DeploymentManager (DPM Command Line) Setup Maintainance Program. Click one of the following options.
Overwrite Install
Uninstall
InstallShield
< Back
Next >
Cancel

(3) The **Confirm Uninstall** screen appears. Click the **OK** button.



(4) When the **Maintenance Complete** screen appears, click the **Finish** button.

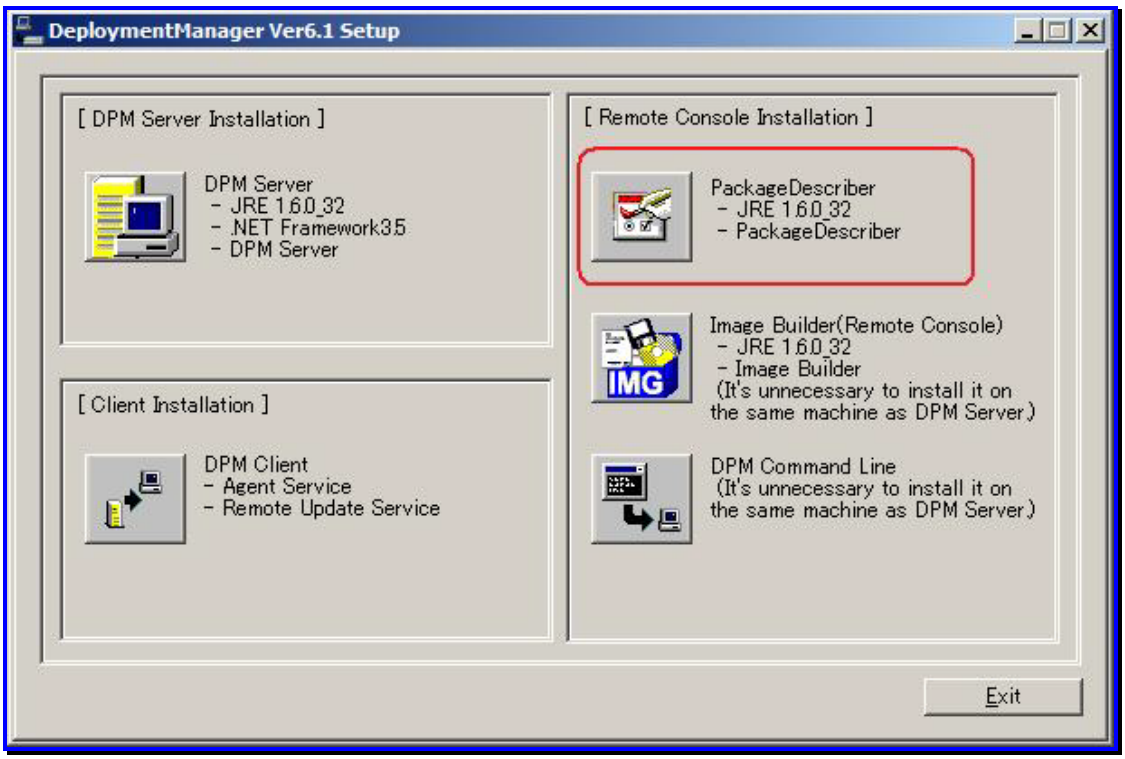

DeploymentManager (DPM Command Line) - InstallShield Wizard
Maintenance Complete
InstallShield Wizard has finished performing maintenance operations on DeploymentManager (DPM Command Line).
< Back
Finish
Cancel

4.6. Uninstalling PackageDescriber

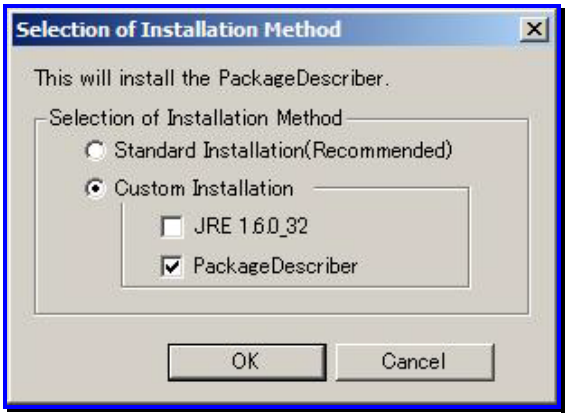
This section describes how to uninstall PackageDescriber.

Log on to the machine where the program is to be uninstalled using a user with Administrator authority.

(1) Insert the install media into the DVD drive. The **DeploymentManager Setup** screen appears. Select **PackageDescriber**.

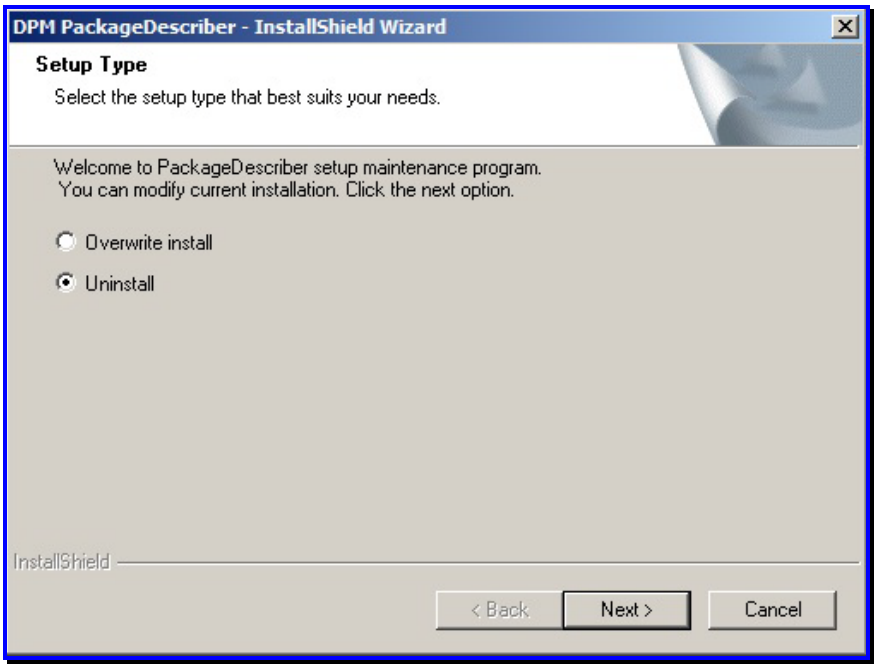


(2) The **Selection of Installation Method** screen appears. Select **Custom Installation**, remove the checkmark from JRE, and click the **OK** button.
Clicking **Cancel** returns the screen to the **DeploymentManager Setup** screen.

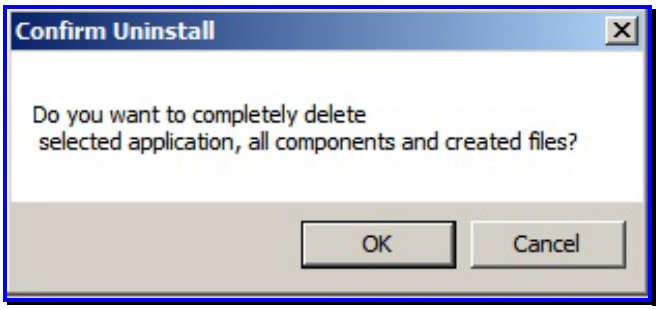


Tips | If you want to uninstall JRE Update32, do so from **Programs and Features**.

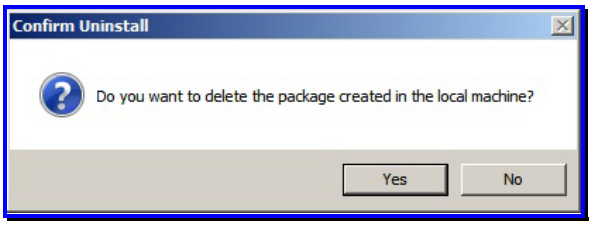
(3) The **Setup Type** screen appears. Select **Uninstall** and click the **Next** button.


DPM PackageDescriber - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Welcome to PackageDescriber setup maintenance program.
You can modify current installation. Click the next option.
Overwrite install
Uninstall
InstallShield
< Back
Next >
Cancel

(4) The **Confirm Uninstall** screen appears. Click the **OK** button.



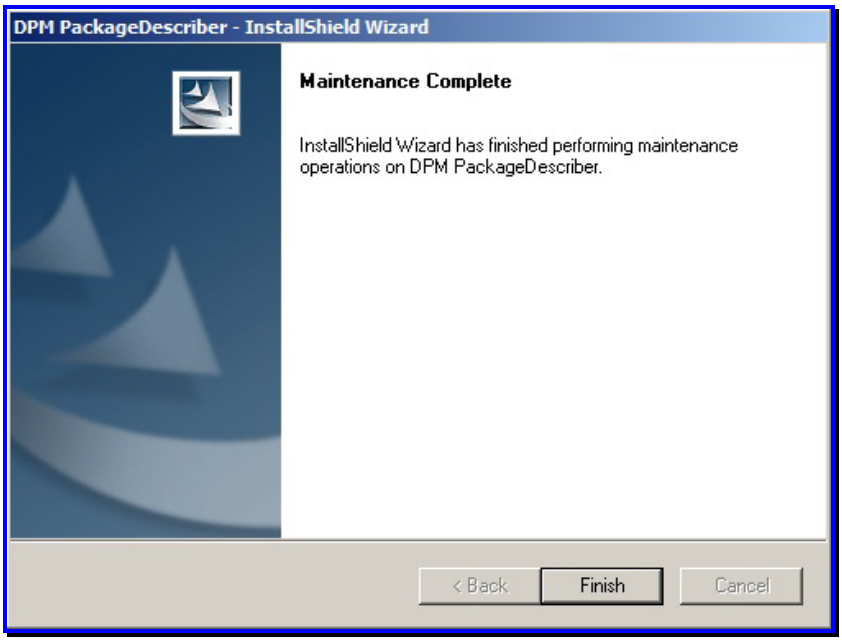
The **Confirm Uninstall** screen appears once again.
Click the **Yes** button removes locally created packages as well.
If you do not want to remove locally created packages, click the **No** button.



Tips

If you click the **No** button, the Packages folder under the PackageDescriber installation folder is not deleted.

(5) The **Maintenance Complete** screen appears. Click the **Finish** button.



Tips

You can uninstall PackageDescriber from the **Programs and Features** screen of Control Panel as well.
In DPM PackageDescriber, click the **Change** button or the **Remove** button to display the **Setup Type** screen of PackageDescriber. Then, uninstall PackageDescriber by following Steps (3) to (5) above.

5. Preparing for DeploymentManager Operation

This chapter describes how to set initial DPM settings.

5.1. Preparing for DPM Operation

The following describes the setup required when using DPM for the first time. Be sure to carefully read this section before working with DPM.

5.1.1. Starting the Web Console

Start the Web Console following the procedure below.

(1) Start the web browser.

Important

- Disable the browser cache settings as follows:
  1) From the **Tools** menu of Internet Explorer, select **Internet Options** and, on the **General** tab, click **Settings** under **Browsing History.**
  2) The **Temporary Internet Files and History Settings** screen appears. Under **Check for newer versions of stored pages**, select **Every time I visit the webpage** and click the **OK** button.
- Enable the browser JavaScript settings as follows:
  1) From the **Tools** menu of Internet Explorer, select **Internet Options** and, on the **Security** tab, click the **Sites** button under **Trusted sites**.
  2) The **Trusted sites** screen appears, so enter the DPM URL. After removing the check from **Require server verification (https:) for all sites in this zone**, click the **Add** button and click the **Close** button.
  3) Click the **Custom Level** button of **Trusted sites** on the **Security** tab.
  4) After selecting "Enable" on following items, click the **OK** button.
     - Scripting
       - Active Scripting
     - Downloads
       - File download
       - Automatic prompting for file downloads
- For IIS7.0/7.5, set "v2.0" on .**NET Framework Version**, seeing the following procedure.
  Example) IIS7.0
  1) From the **Start** menu, select **Administrative Tools** -> **Internet Information Services (IIS) Manager**.
  2) Internet Information Services (IIS) Manager appears.
     Select **Application Pools** on the left side of the screen.
  3) Application Pools is displayed on the center of the screen. After selecting **DeploymentManagerPool**, click **Advanced Setting...** on the right of the screen.

  Advanced Setting screen appears. Set "v2.0" on **.NET Framework Version**.
- If session timeout occurred on the Web Console, the screen is returned to the **DeploymentManager Login** screen.

Note

When you specify a value other than 100% under **Zoom** of the **Page** menu of Internet Explorer, the text may appear in a size other than the specified size.

(2) Enter the either of the following URL in the address bar of the browser to start the Web Console. (The same page is displayed.)

http://*Host*/DPM/
http://*Host*/DPM/Login.aspx
http://*Host*/DPM/Default.aspx

In the Host area, enter the DNS name or IP address of the Management Server to be connected from the Web Console.
The area is not case sensitive.

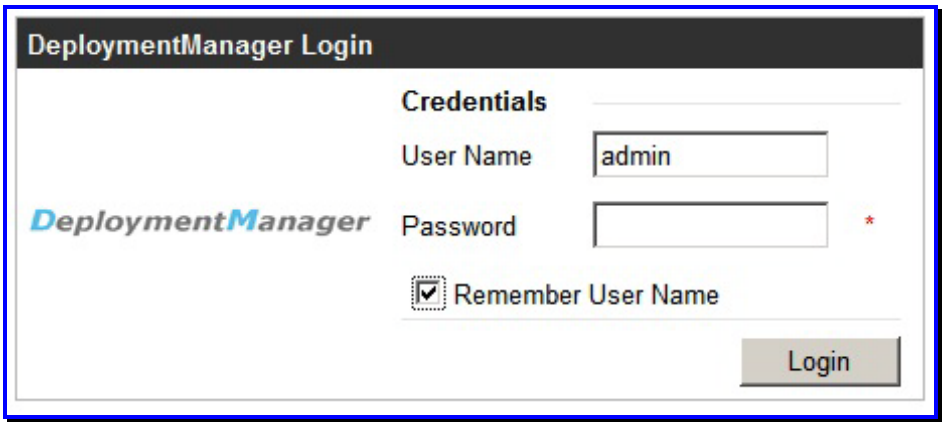
Note

- If the host name of the DPM Server includes a character string (excluding single-byte alphanumeric characters and hyphens "-") not recommended by Windows, specify an IP address in the address bar area of the browser. An error may occur during Web Console startup when the DNS name is specified.
- When you change the port number used in Web Service(IIS) from the default value(80), specify URL(as below) including the changed port number.
  http://*HOST*:*Port Number*/DPM/

Tips

If you access from the same machine with the DPM Server, localhost can be entered in the Host area.
http://localhost/DPM/

(3) The Web Console of DPM is started. Then the **DeploymentManager Login** screen appears.



5.1.2. Logging into DPM

To use DPM functions, you will need to set up user authorities.
Enter a user name and password, and click the **Login** button. (Entry is required.)

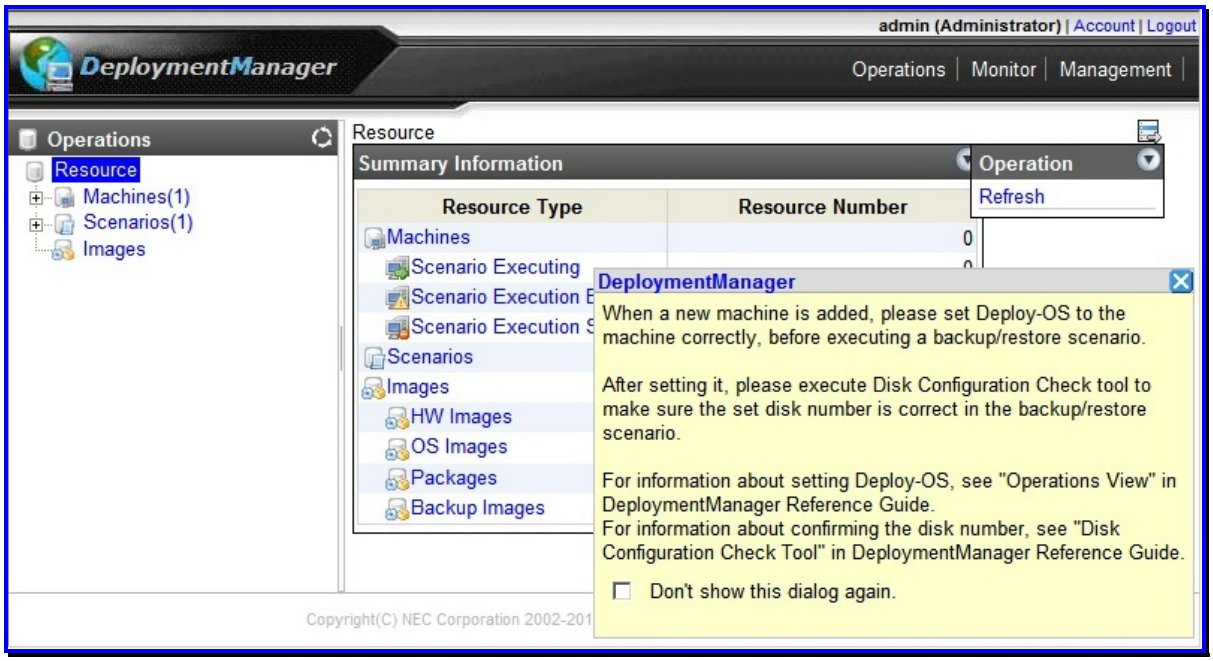
Tips

The user name and password for the user with Administrator authority can use DPM immediately after installation are as follows:

·User name "admin"
·Password "admin"

Be sure to change the password after login. About how to change the password of a logged in user, see Section 5.1.3, "Setting Up Login Users." If you forget the password after you have changed it and only you has been registered, you will no longer be able to log into the system and will have to reinstall the program.
Once you begin operation, add and use other users not "admin" user. For details on adding users and user authorities, see Section 2.2, "User Icon" and Section 2.3, "User List" in *Reference Guide*.

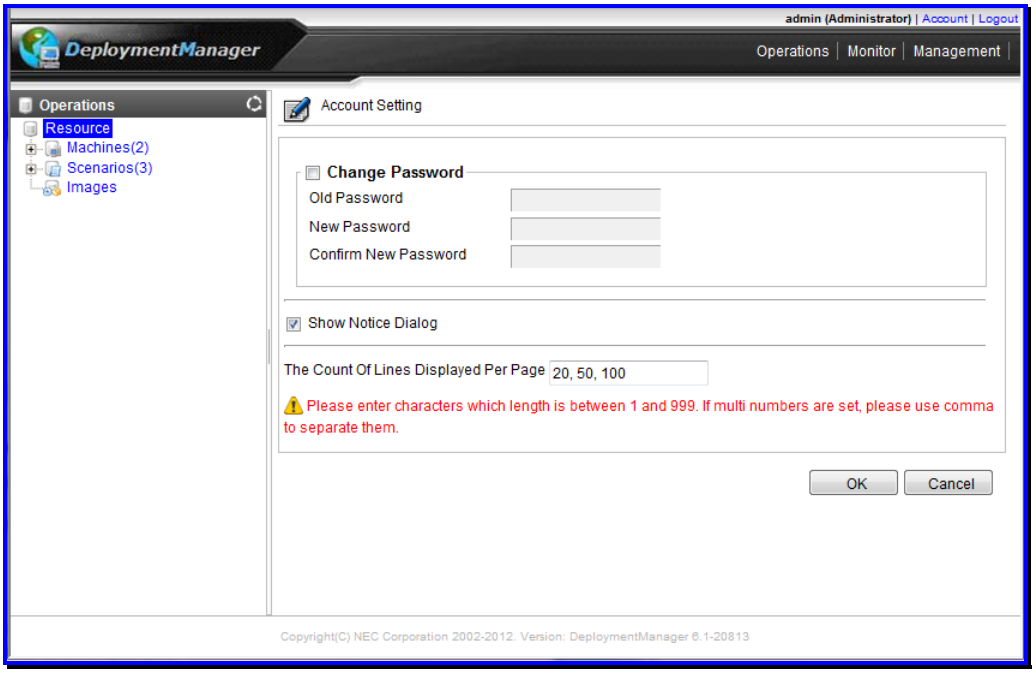
On the Web Console, the **Notice** dialog box appears. Check the contents.



5.1.3. Setting up Login Users

Set up the login users as described below. You can change passwords, show/hide the **Notice** dialog box, and set the number of items to be displayed on one page of the list screen under **Account Setting**. For details on the settings of this screen, see Section 1.1.2, "Account" in *Reference Guide*.

(1) Click **Account** on the title bar of the Web console and the **Account Setting** screen appears.



(2) To change the password, select the **Change password** check box, and enter the password.

(3) If you do not want to display the **Notice** dialog box that appears at login, remove the checkmark from the **Show Notice Dialog** check box.

(4) Set the number of items to be displayed on one page of a list screen.
In the list screen such as the **Group List** screen on the main window, you can change the number of items to be displayed on the screen. You can select the number of items in the combo box of the list screen here. If the number is set to "20, 50, 100" (default value), for example, you can select one of these values from the combo box. When the screen is opened, the number of items will be 20, which is the first of the three settings.

(5) Click the **OK** button.

5.1.4. Registering the License Key

Note

- Only users with Administrator authority can add or remove licenses.
- For SSC product license registration, see *SigmaSystemCenter Installation Guide*.

To use DPM, you must register the license key.
Register the license key following the procedure below.

Important

- The number of licenses is not the number of managed machines that can execute scenarios simultaneously by DPM, but rather the total number of managed machines which are introduced, operated, and managed by DPM.
- You can only register managed machines up to the number of purchased licenses.
- There are two types of licenses: a server target license and a client target license. For license details, see Section 2.3.2, "Product Configurations and Licenses" in *First Step Guide*.
- If you do not want to register the license key, your trial period will be for 30 days with up to 10 machines can be registered. After 30 days, you can't use DPM any more.

(1) On the Web Console, click **Management** in the title bar to switch to the **Management** view.

(2) Click the **License** icon in the **Management** tree. The **Registration License List** screen appears.

(3) Click **Add License Key** in the Configuration menu. **Add License Key** screen appears.

(4) When a license key is entered in the **Add License Key** screen and you click the **OK** button, the entered license key information is registered. If you want to register multiple license keys, repeat Steps (3) to (4) according to the number of license keys.

License is case sensitive, please enter it correctly.

Appendix A Silent Installation

You can install the DPM Server and DPM Client by silent installation.
In this section, the procedure for Windows is described. In the case of DPM Client(Linux(x86/x64)), replace the folder path, etc.

Note

(1) Do not change the specified order of silent installation options.
(2) Be sure to enter the input value inside double-quotation marks (").
[Excluding the DPM Client for Linux (x86/x64)]
(3) Do not enter a space between the option and equal sign ("=").

Tips

(4) When you enter an option you want to specify, the entry is not upper/lower case sensitive.
(5) Some options may be omitted.

(1) Insert the install media into the DVD drive of the machine in which you want to install the DPM Server or DPM Client by silent installation.

(2) Start the command prompt, and move to the folder that stores the installer of the component you want to install by silent installation.
The folder that stores the installer for each component is as below.

Component	Storage Folder
DPM Server	<Install media>:\Setup\DPM
DPM Client(Windows(x86))	<Install media>:\TOOLS\SERVICES\IA32
DPM Client(Windows(x64))	<Install media>:\TOOLS\SERVICES\AMD64
DPM Client(Linux(x86/x64))	<Install media>:\Linux\ia32\bin\agent

Tips

Replace the folder that stores the installer as follows:
·For SSC product: <Install media>:\DPM
·For DPM unbundled product: <Install media>:\

(3) Copy the parameter files (extension: iss) for silent installation from the folder that stores the installer of the component you want to install to the local HDD.
The following describes an example that the files are copied to C:\SilentInstall.
For silent installation parameter files, see the following section, "Creating Silent Installation Parameter Files."

(4) Execute the silent installation command. The silent installation arguments are explained below. See the following section "Installing, Upgrading, and Uninstalling the DPM Server" and "Installing, Upgrading, and Uninstalling the DPM Client" for the detail.

Abbreviation	Option Name	Meaning
Silent Mode	/s	Starts silent mode.
Silent installation parameter files	/f1	Parameter files for silent installation. For further details, see how to create silent installation parameter files described later. The command examples described in the following employ a case example where silent installation parameters files are copied directly under "C:\SilentInstall."
Log Output Destination	/f2	Specifies the output destination for the Silent Install log.
Silent Mode	SILENTDPM	Silent Mode
Installation path	INSTALLDIR	The path for installing the DPM Server. Specify an absolute path using 255 characters or less. Example) C:\Program Files\NEC\DeploymentManager
Management Server IP	MANAGEMENT SERVERIP	The IP address of the Management Server. Specify the IP address using numbers and dots. Example) 192.168.0.1
Firewall	FIREWALL	X can be specified using 0, 1, or 2. If you specify 0: The port will be not added as an exception in firewall settings. If you specify 1: The port and program of DPM will be added as an exception and communication is enabled. If you specify 2: The port and program of DPM will be added as an exception, but communication is not enabled.
SQL Architecture	SQLARCH	Specify the SQL Server 2008 R2 SP1 Express type (x64 or x86). x86: SQL Server 2008 R2 SP1 Express(x86) will be installed. x64: SQL Server 2008 R2 SP1 Express(x64) will be installed. If the SQL server is already installed, SQL Server 2008 R2 SP1 is not installed.

Installing, Upgrading, and Uninstalling the DPM Server

■ Installing

Setup.exe /s /f1"C:\SilentInstall\DPM_MNG_Setup.iss" SILENTDPM INSTALLDIR="install path" MANAGEMENTSERVERIP="Management Server IP" FIREWALL=x SQLARCH="SQL Architecture"

Note

If you install the DPM Server on a machine with multiple LAN board by omitting MANAGEMENTSERVERIP, the IP address set on an unintended LAN board may be recognized. Therefore, it is recommended that you should not omit the MANAGEMENTSERVERIP option and should specify the IP address that is to be used by the Management Server (DPM Server) for communication. For the IP address used by the Management Server (DPM Server) for communication, see Section 2.7.1, "Detail Setting" in *Reference Guid*e.

Tips

The following options can be omitted. The value that is set if omitted is as below.

Options that can be omitted	**Setting value**
INSTALLDIR	%ProgramFiles%\NEC\DeploymentManager
MANAGEMENTSERVERIP	"ANY" is set as the IP address.
FIREWALL	"1" is set. The program of the DPM Server and the port used by it are added as an exception and the communication is enabled. For a list of ports used, see Appendix D, "Network Port and Protocol List" in *Reference Guide*.
SQLARCH	In the case the OS is x86, the SQL Server 2008 R2 SP1 Express(x86) is installed. In the case the OS is x64, the SQL Server 2008 R2 SP1 Express(x64) is installed. If the SQL server is already installed, SQL Server 2008 R2 SP1 is not installed.

■ Upgrade Installation

```
Setup.exe /s /f1"C:\SilentInstall\DPM_MNG_RESetup.iss" SILENTDPM
FIREWALL=x SQLARCH=" SQL Architecture"
```

Important

Upgrading the DPM Server is possible if DPM Ver4.0 or later is installed.

Tips

The following options can be omitted. The value that is set if omitted is as below.

Options that can be omitted	Setting value
FIREWALL	"1" is set. The program of the DPM Server and the port used by it are added as an exception and the communication is enabled. For a list of ports used, see Appendix D, "Network Port and Protocol List" in *Reference Guide*.
SQLARCH	In the case the OS is x86, the SQL Server 2008 R2 SP1 Express(x86) is installed. In the case the OS is x64, the SQL Server 2008 R2 SP1 Express(x64) is installed. If the SQL server is already installed, SQL Server 2008 R2 SP1 is not installed.

■ Uninstall

```
Setup.exe /s /f1"C:\SilentInstall\DPM_MNG_Uninst.iss" SILENTDPM
```

Installing, Upgrading, and Uninstalling the DPM Client

■ Install the Windows (x86/x64) version as described below.

■ **Installing**

```
Setup.exe /s /f1"C:\SilentInstall\DPM_CLI_Setup.iss" SILENTDPM
DPMSERVERIP="Management Server IP "FIREWALL=x
```

Tips

The following options can be omitted. The value that is set if omitted is as below.

Options that can be omitted	Setting value
DPMSERVERIP	The DPM Client searches the Management Server automatically after the installation is completed. It may take some time to search.

■ **Upgrading**

```
Setup.exe /s /f1"C:\SilentInstall\DPM_CLI_RESetup.iss" SILENTDPM
DPMSERVERIP="Management Server IP"
```

Tips

The following options may be omitted. The value that is set if omitted is as below.

Options that can be omitted	Setting value
DPMSERVERIP	The Management Server IP address set for the installed DPM Client.
FIREWALL	"1" is set. The program of the DPM Client and the port used by it are added as an exception and the communication is enabled. For a list of ports used, see Appendix D, "Network Port and Protocol List" in *Reference Guide*.

■ **Uninstalling**

```
Setup.exe /s /f1"C:\SilentInstall\DPM_CLI_Uninst.iss" SILENTDPM
```

Note

Do not uninstall immediately after installation of the DPM Client or starting the client services. If the processing for searching the Management Server is running, the DPM Client may not be uninstalled correctly.

■ Install the Linux (x86/x64) version as described below.

■ **Installing**

he

```
depinst_silent.sh Management Server IP > /var/temp/Inst_DPM_Lin_Cli.log
```

Management Server IP can be omitted.

■ **Upgrading**

The Management Server IP can be omitted.

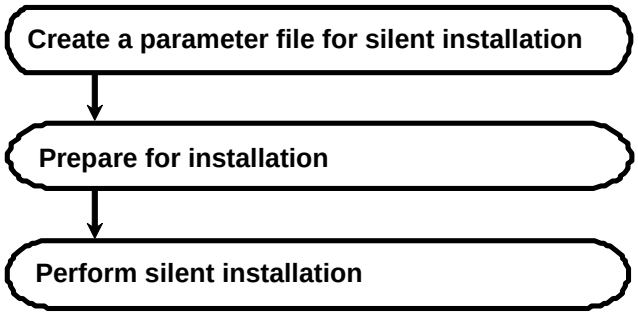
```
depinst_silent.sh Management Server IP > /var/temp/Inst_DPM_Lin_Cli.log
```

■ **Uninstalling**

```
depuninst.sh > /var/temp/Inst_DPM_Lin_Cli.log
```

■ DPM Client [Windows (x86/x64)] Parameter Creation Method and Silent Installation

About DPM Client [Windows (x86/x64)], you can also perform silent installation by preparing the parameter files for silent installation following the procedure below.



■ Creating the Parameter Files for Silent Installation

(1) Prepare the machine for creating the parameter files.

(2) Log on to the machine prepared in Step (1) using a user of Administrator authority.

(3) Insert the install media into the DVD drive.

(4) From the **Start** menu, select **Run**, enter **cmd** in the open column, and click the **OK** button.
The command prompt appears. Execute the command below.

Tips

SSC product:
<Install media>:\DPM\TOOLS\SERVICES\Machine architecture\setup.exe –r
DPM unbundled product:
<Install media>:\TOOLS\SERVICES\Machine architecture\setup.exe –r
*The name of the "***Machine architecture***" folder is as follows:
For x86 : IA32
For x64 : AMD64
Example)<Install media>:\DPM\TOOLS\SERVICES\IA32\setup.exe –r

(5) The setup wizard starts. Enter the required values and perform setup. The entered values and operations performed at this time are recorded as parameter files.

(6) The parameter file setup.iss for silent installation is created in the Windows system folder.

Tips

The Windows system folder by default is as follows:
Windows Server 2003/2008: C:\WINDOWS
Windows 2000: C:\WINNT
For other operating systems, check the environment variable "%Systemroot%."

■ Prepare the Installer.

(1) Insert the install media into the DVD drive, and copy the folder below located on the install media to an arbitrary location.

Tips

For SSC product: <Install media>:\DPM\TOOLS\SERVICES***Machine Architecture***
For DPM unbundled product: <Install media>:\TOOLS\SERVICES***Machine Architecture***
*The name of the "***Machine Architecture***" folder is as follows:
·For x86 : IA32
·For x64 : AMD64
Example)<Install media>:\DPM\TOOLS\SERVICES\IA32

(2) Copy setup.iss that was created in advance to the folder copied in Step (1).

Preparation is now completed.

■ Execute Silent Installation.

(1) From the **Start** menu, select **Run**, enter **cmd** in the open column, and click the **OK** button. The command prompt appears. Execute the command below.

Example)
When the folder is copied directly under the C drive
C:\IA32\setup.exe -s

Note

■ The parameter files for silent installation need to be created for each OS.
■ It is recommended to fully check whether installation properly works with the created parameter file.
■ The parameter files for installation can only be used with Windows (x86/x64).

Tips

■ For version x64, run "C:\AMD64\setup.exe –s."
■ Silent installation creates a log during installation in the folder where the installer is stored. Thus, if the installer is stored on media such as a DVD that is not capable of writing, the log files cannot be created, causing installation failure.
In such a case, specify the output destination of the log files using parameters as follows:
Setup.exe -s -f2"c:\temp\clientsvc.log"

This ends the explanation of the silent installation execution procedure.

Appendix B Setting Up the Package Web Server

Package Web Server setting method for IIS 7.0 (Windows Server 2008)/IIS7.5 (Windows Server 2008 R2)

Depending on the IIS version, some screens may not appear.

Note

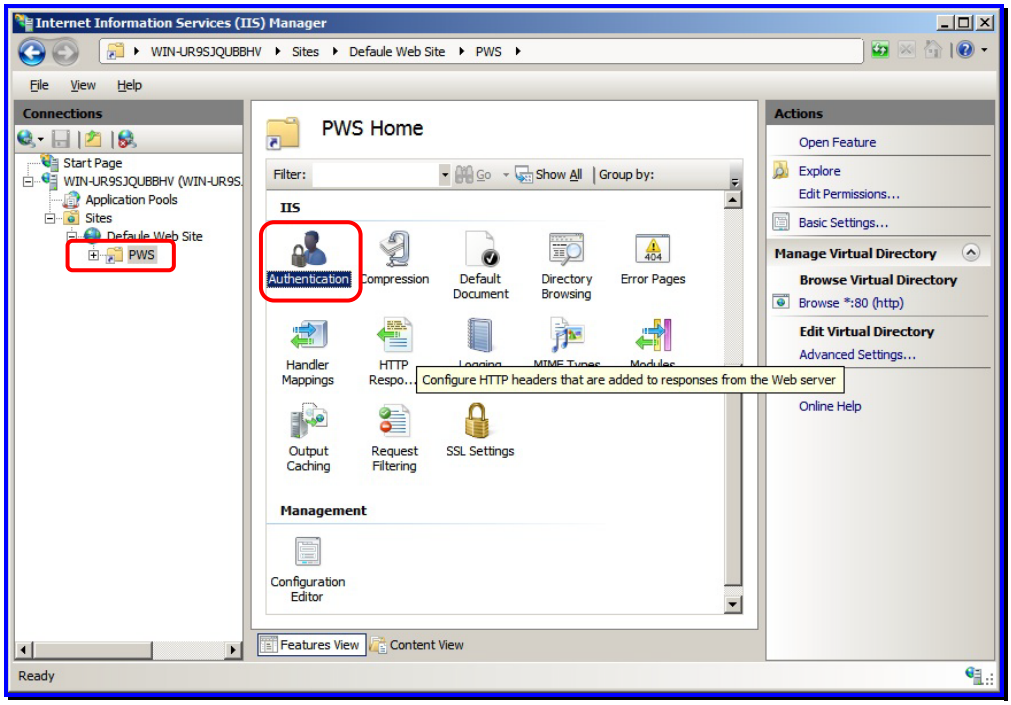
■ If supplying HTTP service or setting user authentication using IIS, enable **Basic Authentication** and disable **Common Authentication**.

Example)

IIS7.0 (For Windows Server 2008):

1) From the **Start** menu, select **Administrative Tools** -> **Internet Information Services (IIS) Manager**.

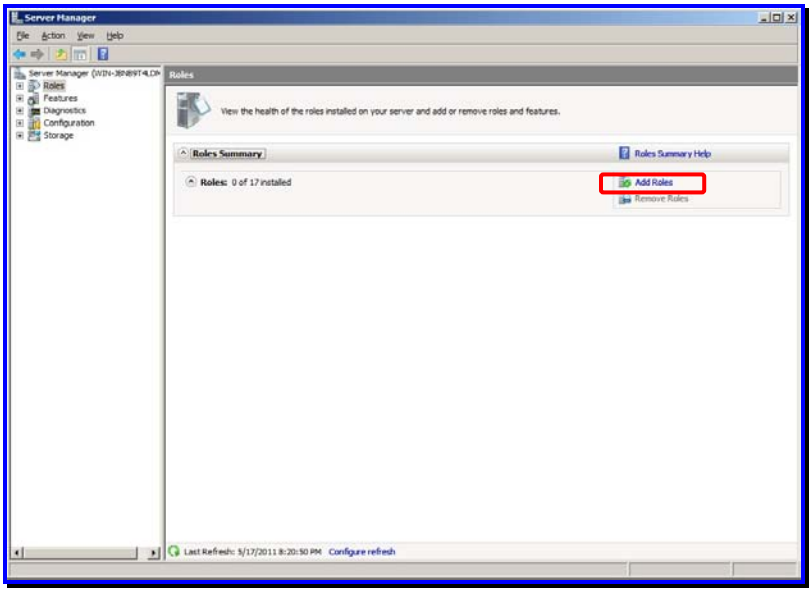
2) The **Internet Information Services (IIS) Manager** screen appears. Select created virtual directory from the left side of the screen and double click **Authentication** in the middle of the screen.



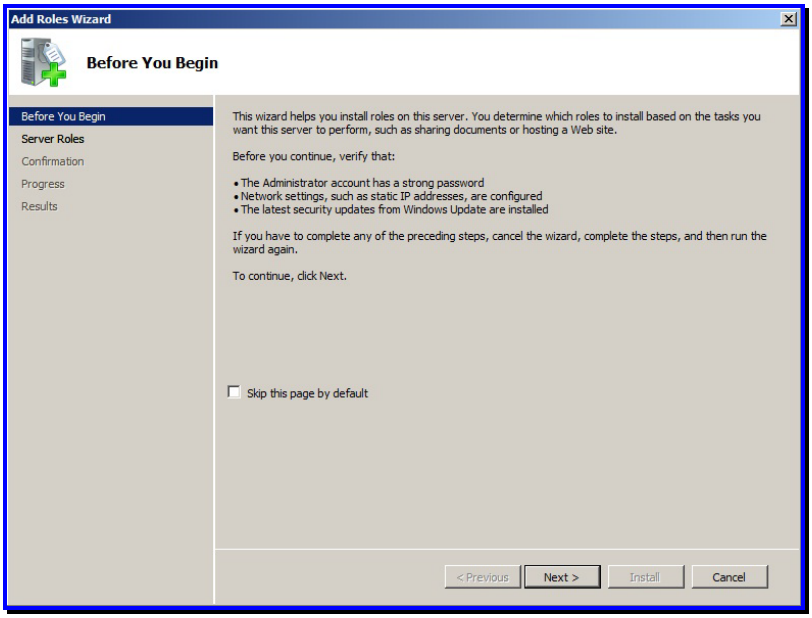
3) Right-click **Basic Authentication** in the middle of the screen and click **Enable**.

(1) From the Start menu, select Administrative Tools -> Server Manager.

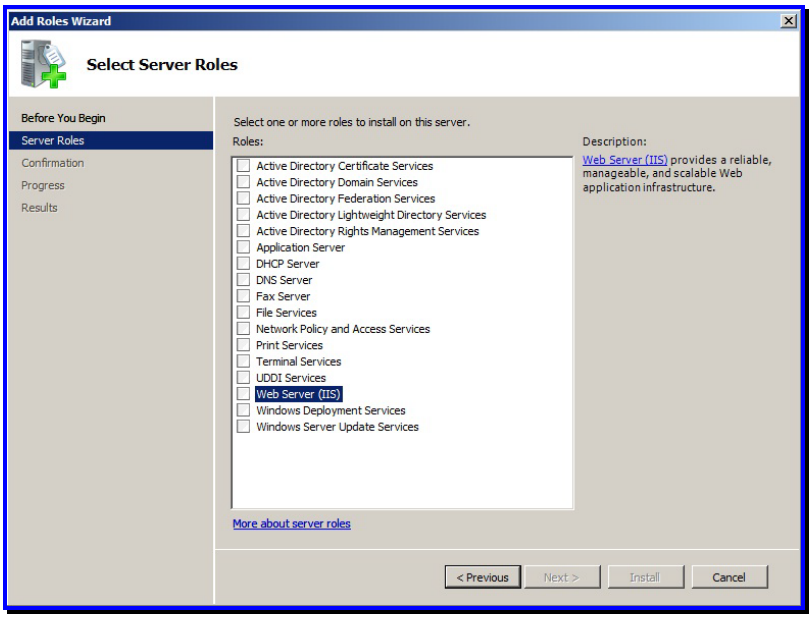
(2) The **Server Manager** screen appears. Select **Roles** on the left-hand pane, and then click **Add Roles** on the right-hand pane.



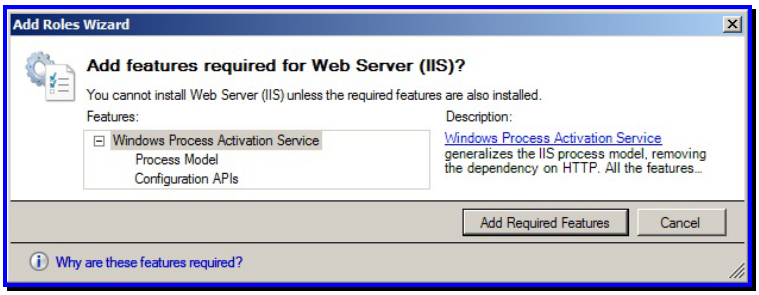
(3) The **Add Roles Wizard** appears. Click the **Next** button.


Add Roles Wizard
Before You Begin
Before You Begin
Server Roles
Confirmation
Progress
Results
This wizard helps you install roles on this server. You determine which roles to install based on the tasks you want this server to perform, such as sharing documents or hosting a Web site.
Before you continue, verify that:
• The Administrator account has a strong password
• Network settings, such as static IP addresses, are configured
• The latest security updates from Windows Update are installed
If you have to complete any of the preceding steps, cancel the wizard, complete the steps, and then run the wizard again.
To continue, click Next.
Skip this page by default
< Previous
Next >
Install
Cancel

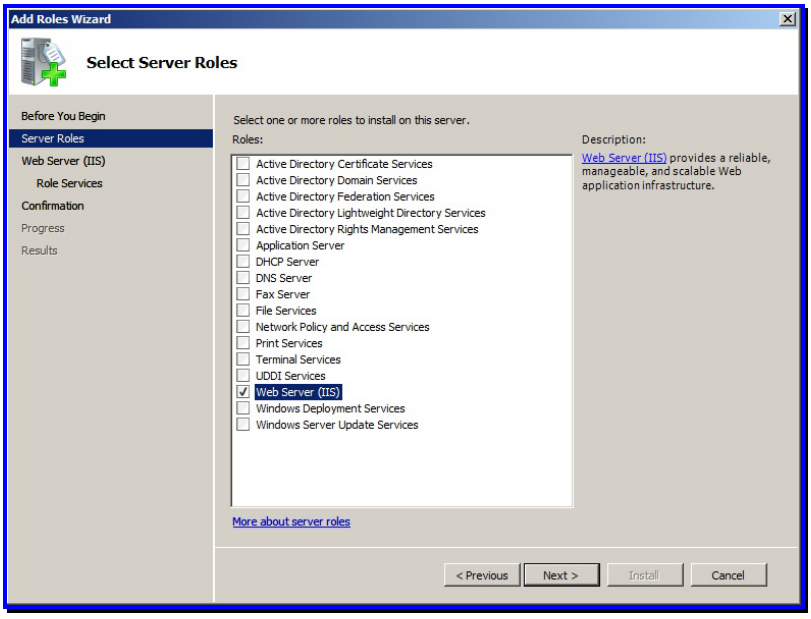
(4) The **Select Server Roles** screen appears. Enter a check by **Web Server (IIS)**.



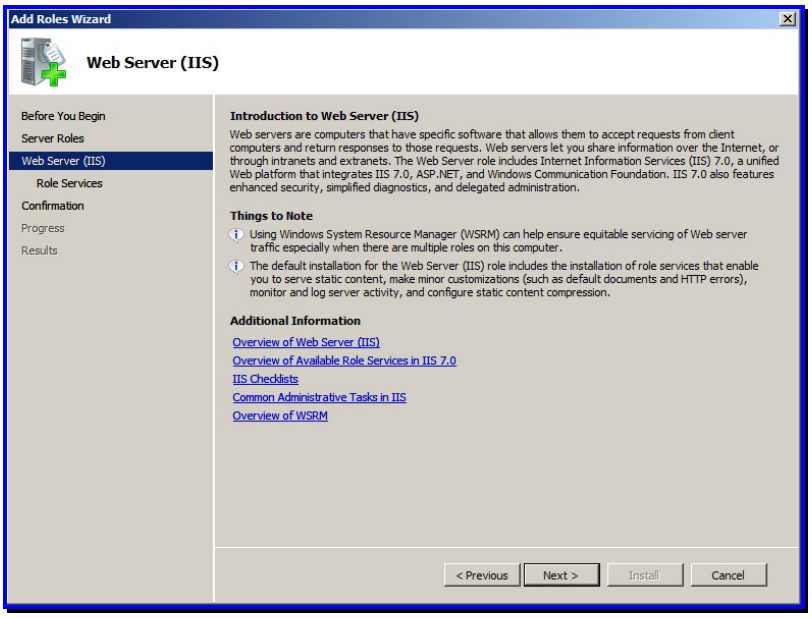
(5) The following screen appears. Click the **Add Required Features** button.


Add Roles Wizard
Add features required for Web Server (IIS)?
You cannot install Web Server (IIS) unless the required features are also installed.
Features:
Windows Process Activation Service
Process Model
Configuration APIs
Description:
Windows Process Activation Service generalizes the IIS process model, removing the dependency on HTTP. All the features...
Add Required Features
Cancel
Why are these features required?

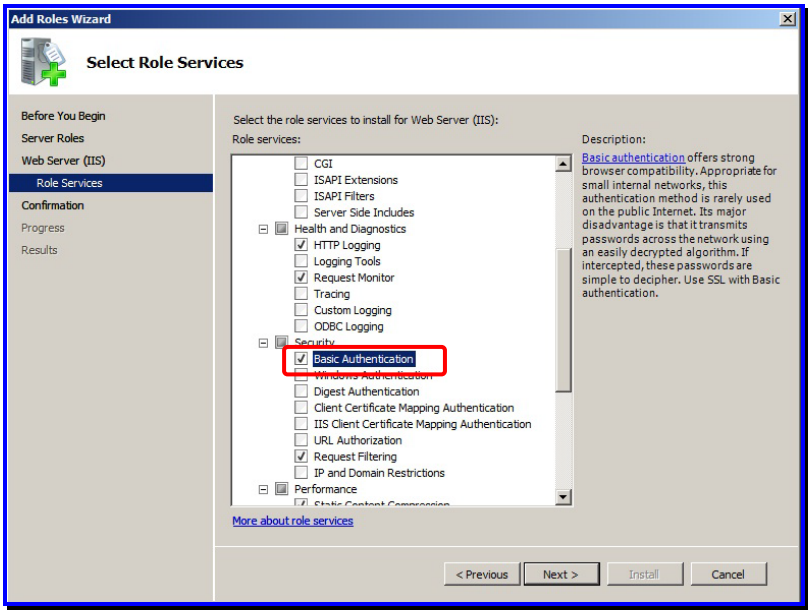
(6) The screen returns to the **Select Server Roles** screen. Click the **Next** button.



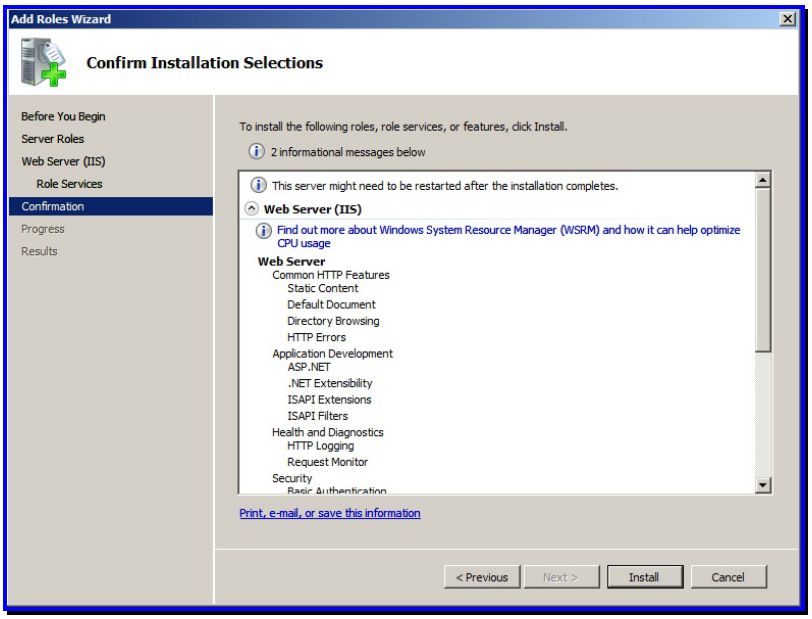
(7) On the **Web Server (IIS)** screen, click the **Next** button.


Add Roles Wizard
Web Server (IIS)
Before You Begin
Server Roles
Web Server (IIS)
Role Services
Confirmation
Progress
Results
Introduction to Web Server (IIS)
Web servers are computers that have specific software that allows them to accept requests from client computers and return responses to those requests. Web servers let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 7.0, a unified Web platform that integrates IIS 7.0, ASP.NET, and Windows Communication Foundation. IIS 7.0 also features enhanced security, simplified diagnostics, and delegated administration.
Things to Note
Using Windows System Resource Manager (WSRM) can help ensure equitable servicing of Web server traffic especially when there are multiple roles on this computer.
The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression.
Additional Information
Overview of Web Server (IIS)
Overview of Available Role Services in IIS 7.0
IIS Checklists
Common Administrative Tasks in IIS
Overview of WSRM
< Previous
Next >
Install
Cancel

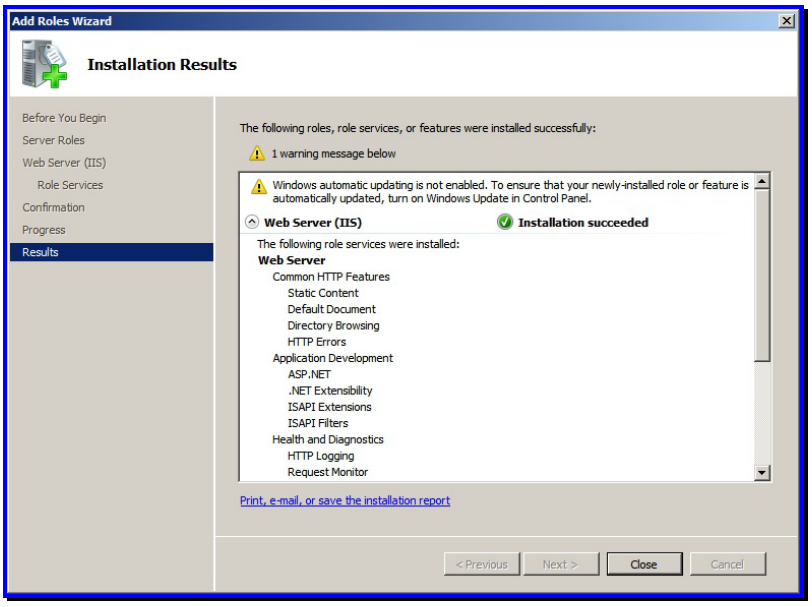
(8) On the **Select Role Services** screen, check **Basic Authentication** and click the **Next** button.



(9) On the **Confirm Installation Selections** screen, click the Install button.



(10) On the **Installation Results** screen, check the installation details and click the **Close** button.



(11) Create a folder that can be accessed from PackageDescriber.

Note

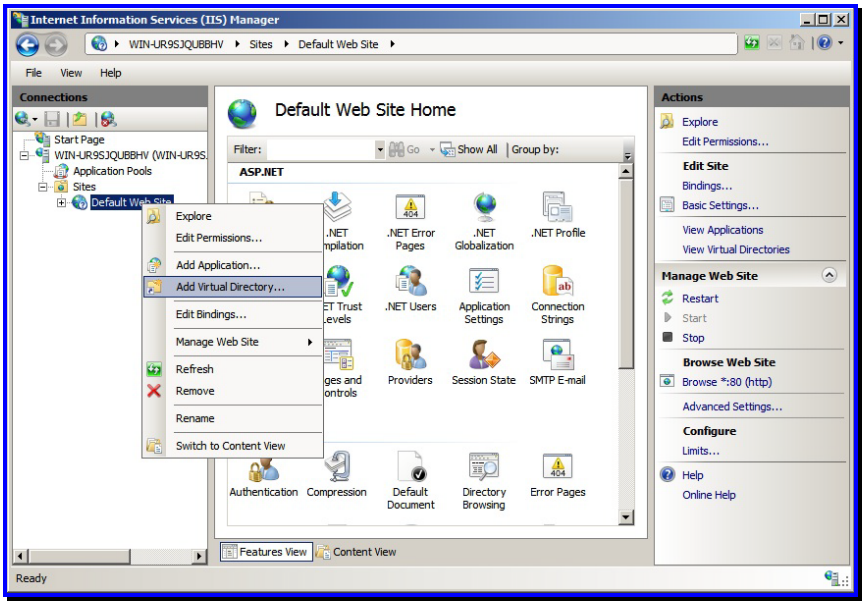
- If you want to specify a share folder of Windows machines in the network for the **Web shared folder**, it is recommended that you assign the folder to the network drive in advance. If the folder is not assigned to the network drive, it may fail to access to the share folder of the network computer.
- Verify that the **Web shared folder** has read and write attributes.
- The created package will be stored in the **Web shared folder**. Be sure to secure enough free space.

Tips

You can install PackageDescriber on the same machine as the Package Web Server.

(12) From the Start menu, select **Control Panel** -> **Administrative Tools** -> **Internet Information Services (IIS) Manager**.

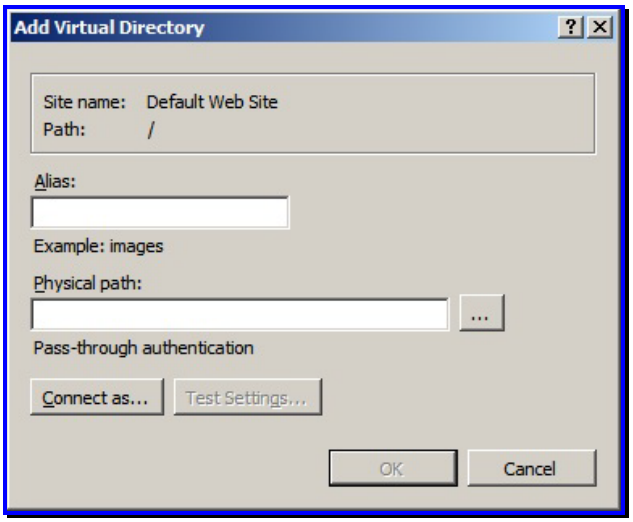
(13) The **Internet Information Services (IIS) Manager** screen appears. Right-click **Default Web Site** and click **Add Virtual Directory**.



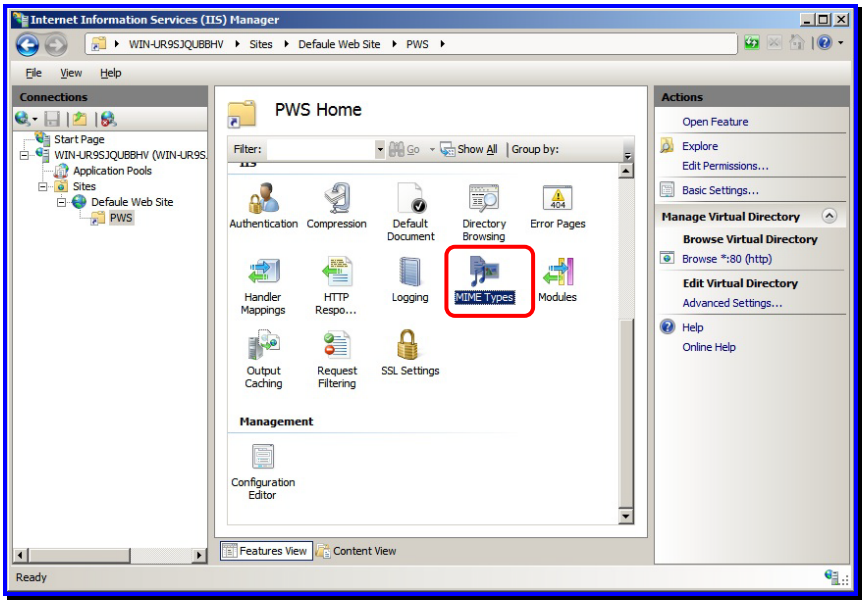
(14) The **Add Virtual Directory** screen appears. Click the **OK** button after the following settings.

·Alias : Optional alias name

·Physical path : Folder created in (11)



(15) To download service packs/hotfixes/applications of Windows Server 2008/ Windows Vista/Windows 7, double click **MIME Types** in the middle of the screen.

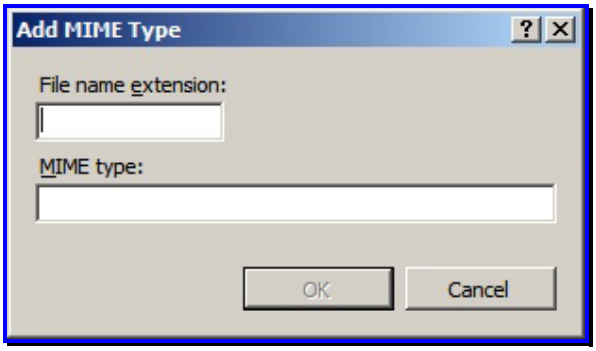


(16) The **Mime Types** screen appears in the middle of the screen and click **Add...** on the right side of the screen.

(17) The **Add Mime Type** screen appears. Click the **OK** button after the following settings.

·Extension : msu

·Mime Type: application/octet-stream



(18) Using the same procedure as in Steps (16) to (17), enter msp as the extension and application/octet-stream as the MIME type.

Appendix C NFS Server Configuration

The method described below is for constructing the NFS Server on the DPM Server (Windows Server 2008).
For precautions when installing the NFS Server on a different machine, see Section 3.5.6, "Precautions/Other" in *Operation Guide*.

(1) Install "Service for NFS (Network File System)" on the Management Server.
For installation, see the manual with the product. You will need to restart the machine after installation.

(2) Set the exports folder under the **Folder for Image** set in the Web Console as an NFS shared folder. (Shared name: exports)

Note

To set the NFS shared folder (exports) on Windows Server 2008, the following settings are required:

1) From the **Start** menu, select **Administrative Tools** -> **Local Security Policy** -> **Local Policies** -> **Security Options**, enable **Network access: Let Everyone permissions apply to anonymous users**, and restart the Management Server.
(Note that when the machine participates in a domain and the domain security policy option is disabled, even if the local security policy option is enabled, the option will become disabled. For a domain controller, change the domain security policy instead of the local security policy).
2) Open the **Properties** dialog box of the exports folder, click the **Security** tab, add **Everyone**, and check **Read & Execute** in the permissions area. Note that the **Read** permission is unproblematic for only the ks folder under the **exports** folder.

Tips

To create an NFS shared folder in Windows Server 2008 R2, configure as below.

1) Right-click the **exports** folder properties.
2) The property of the folder is displayed. Click **Manage NFS Sharing** on **NFS Sharing** tab
3) **NFS Advanced Sharing** screen appears. After configuring the following, click the OK button.
   - Select the **Share this folder** checkbox and select **Allow anonymous access**.
   - Click **Permissions** button and check **Allow root access**.

If you want to construct the NFS Server on Linux, see the following.

■ To start NFS server on Linux, execute the following commands:
/etc/rc.d/init.d/portmap restart
/etc/rc.d/init.d/nfs stop &> /dev/null
/etc/rc.d/init.d/nfs start

■ To enable NFS services at startup, execute the following commands:
/sbin/chkconfig --level 345 portmap on
/sbin/chkconfig --level 345 nfs on

Appendix D Upgrading the Database

To upgrade the database, contact your sales or support representative about the database upgrade procedure.

Appendix E Using DPM Server and MasterScope Network Manager on the same machine

Important

When upgrading the DPM Server after setting to cooperate TFTP service of DPM with that of MasterScope Network Manager, perform steps (7) to (11) again of "To install the DPM Server on the machine on which MasterScope Network Manager is installed, follow the procedure below."

When you install the DPM Server on the machine on which MasterScope Network Manager is installed, TFTP services of MasterScope Network Manager and DPM are conflicted and each TFTP service may not work properly.
In this case, you do not use TFTP service of DPM and need to cooperate DPM with TFTP service of MasterScope Network Manager.
For details on the cooperation, etc., see also the User's Manual of MasterScope Network Manager.

Note

Perform the following configuration only if the IP address of the MasterScope Network Manager and DPM is duplicated.

■ To install the DPM Server on the machine on which MasterScope Network Manager is installed, follow the procedure below:

(1) From the **Start** menu, select **Administrative Tools** -> **Services** on the Management Server**,** and then open the **Service** screen.

(2) Stop all services of MasterScope Network Manager.

(3) Install the DPM Server.

(4) From the **Start** menu, select **Administrative Tools** -> **Services** on the Management Server**,** and then open the **Service** screen.

(5) Stop the following services:
DeploymentManager API Service
DeploymentManager Backup/Restore Management
DeploymentManager Get Client Information
DeploymentManager PXE Management
DeploymentManager Remote Update Service
DeploymentManager Schedule Management
DeploymentManager Transfer Management

(6) Stop the following service, and then change to **Disabled** in **Startup type**.
DeploymentManager PXE Mtftp

(7) Insert the DPM install media into the DVD drive on the Management Server.

(8) Execute the following operations according to the OS architecture in use.

- For x86: Execute the following file in the install media.

Tips

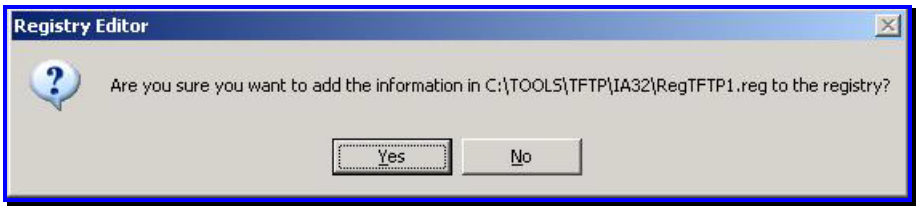
For SSC product: :
<Install media> :\DPM\TOOLS\TFTP\IA32\RegTFTP1.reg
For DPM unbundled product:
<Install media> :\TOOLS\TFTP\IA32\RegTFTP1.reg

- For x64: From the **Start** menu, select **Run**. Enter "%WINDIR%\SysWOW64\cmd.exe" for the name of the program to execute, and then click the **OK** button. The command prompt appears. Execute the following file from the command prompt.

Tips

For SSC products:
<Install media> :\DPM\TOOLS\TFTP\AMD64\RegTFTP1.reg
For DPM unbundled products:
<Install media> :\TOOLS\TFTP\AMD64\RegTFTP1.reg

(9) The following screen appears. Click the **Yes** button.



(10) The following screen appears. Click the **OK** button.

(11) Copy all of the files under (the DPM Server installation folder)\PXE\Images to the TFTP root folder of MasterScope Network Manager. (For the MasterScope Network Manager TFTP root folder, see the User's Manual of MasterScope Network Manager.)
Make sure that you do not delete files under (the DPM Server's installation folder)\PXE\Images in this step.

(12) Select **Run** from the **Start** menu on the Management Server. Enter "regedit" for the name of the program to execute, and then click the **OK** button.

(13) Registry Editor starts up. Please change the following registry:

Registry path
x86:HKEY_LOCAL_MACHINE\SOFTWARE\NEC\DeploymentManager
x64:HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\NEC\DeploymentManager

Value name	Value data
GPxeLinuxCFGDir	*TFTP root folder of MasterScope Network Manager*
PxeDosFdDir	*TFTP root folder of MasterScope Network Manager*\DOSFD
PxeHwDir	*TFTP root folder of MasterScope Network Manager*\HW
PxeHW64Dir	*TFTP root folder of MasterScope Network Manager*\HW64
PxeLinuxDir	*TFTP root folder of MasterScope Network Manager*\pxelinux
PxeNbpDir	*TFTP root folder of MasterScope Network Manager*\NBP
PxeNbpFdDir	*TFTP root folder of MasterScope Network Manager*\NBP

Registry path
x86:HKEY_LOCAL_MACHINE\SOFTWARE\NEC\DeploymentManager\PXE\Mtftpd
x64:HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\NEC\DeploymentManager\PXE\Mtftpd

Value name	Value data
BASE_DIR	*TFTP root folder of MasterScope Network Manager*

(14) Seeing the information about the conflict of TFTP server with other software on MasterScope Network Manager install server in the User's Manual of MasterScope Network Manager, modify the contents of the nvrmap.ini file and reboot the machine.

Note

If IP address of the Management Server was changed after the above configuration, perform steps (7) to (10) again.

■ To install MasterScope Network Manager on a machine on which the DPM Server is installed, follow the procedure below:

(1) From the **Start** menu, select **Administrative Tools** -> **Services** on the Management Server**,** and then open the **Service** screen.

(2) Stop the following services:
DeploymentManager API Service
DeploymentManager Backup/Restore Management
DeploymentManager Get Client Information
DeploymentManager PXE Management
DeploymentManager Remote Update Service
DeploymentManager Schedule Management
DeploymentManager Transfer Management

(3) Stop the following service, and then change to **Disabled** in **Startup Type**.
DeploymentManager PXE Mtftp

(4) Insert the DPM install media into the DVD drive on the Management Server.

(5) Execute the following operations according to the OS architecture in use.
• x86: Execute the following files in the install media.

Tips

For SSC product :\DPM\TOOLS\ TFTP\IA32\RegTFTP1.reg
For DPM unbundled product :\TOOLS\TFTP\IA32\RegTFTP1.reg

• x64: From the **Start** menu, select **Run**. Enter "%WINDIR%\SysWOW64\cmd.exe" for the name of the program to execute, and then click the **OK** button. The command prompt appears. Execute the following file from the command prompt.

Tips

For SSC product :\DPM\TOOLS\TFTP\AMD64\RegTFTP1.reg
For DPM unbundled product :\TOOLS\TFTP\AMD64\RegTFTP1.reg

(6) The following screen appears. Click the **Yes** button.

(7) The following screen appears. Click the **OK** button.

(8) See the User's Manual of MasterScope Network Manager and install MasterScope Network Manager.

(9) Copy all of the files under (the DPM Server installation folder)\PXE\Images to MasterScope Network Manager's TFTP root folder. (For the MasterScope Network Manager TFTP root folder, see the User's Manual of MasterScope Network Manager.)
Make sure that you do not delete files under (the DPM Server's installation folder)\PXE\Images in this step.

(10) From the **Start** menu, select **Run** on the Management Server. Enter "regedit" for the name of the program to execute, and then click the **OK** button.

(11) Registry Editor starts up. Please change the following registry:

Registry path
x86:HKEY_LOCAL_MACHINE\SOFTWARE\NEC\DeploymentManager
x64:HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\NEC\DeploymentManager

Value name	Value data
GPxeLinuxCFGDir	*TFTP root folder of MasterScope Network Manager*
PxeDosFdDir	*TFTP root folder of MasterScope Network Manager*\DOSFD
PxeHwDir	*TFTP root folder of MasterScope Network Manager*\HW
PxeHW64Dir	*TFTP root folder of MasterScope Network Manager*\HW64
PxeLinuxDir	*TFTP root folder of MasterScope Network Manager*\pxelinux
PxeNbpDir	*TFTP root folder of MasterScope Network Manager*\NBP
PxeNbpFdDir	*TFTP root folder of MasterScope Network Manager*\NBP

Registry path
x86:HKEY_LOCAL_MACHINE\SOFTWARE\NEC\DeploymentManager\PXE\Mtftpd
x64:HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\NEC\DeploymentManager\PXE\Mtftpd

Value name	Value data
BASE_DIR	*TFTP root folder of MasterScope Network Manager*

(12) Seeing the information about the conflict of TFTP server with other software on MasterScope Network Manager install server in the User's Manual of MasterScope Network Manager, modify the contents of the nvrmap.ini file and reboot the machine.

Note

If IP address of the Management Server was changed after the above configuration, perform steps (4) to (7) again.

■ To uninstall MasterScope Network Manager, follow the procedures below.

(1) Copy all of the files under MasterScope Network Manager's TFTP root folder to (the DPM Server installation folder)\PXE\Images. After the files are copied, delete all files under the TFTP root folder of MasterScope Network Manager. (For the MasterScope Network Manager TFTP root folder, see the User's Manual of MasterScope Network Manager.)

(2) Uninstall MasterScope Network Manager.

(3) From the **Start** menu, select **Administrative Tools** -> **Services** on the Management Server**,** and then open the Service screen.

(4) Stop the following services:
DeploymentManager API Service
DeploymentManager Backup/Restore Management
DeploymentManager Get Client Information
DeploymentManager PXE Management
DeploymentManager Remote Update Service
DeploymentManager Schedule Management
DeploymentManager Transfer Management

(5) Insert the DPM install media into the DVD drive on the Management Server.

(6) Execute the following operations according to the OS architecture in use.
• For x86: Execute the following files in the install media.

Tips

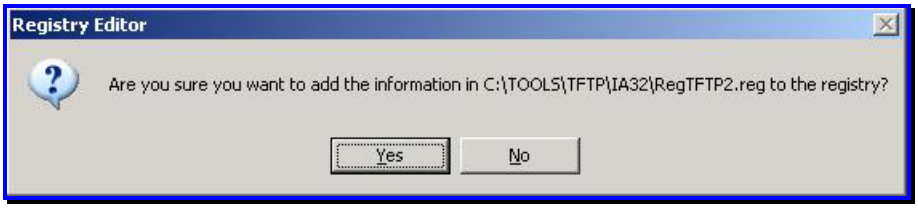
For SSC product:
<Install media> :\DPM\TOOLS\TFTP\IA32\RegTFTP2.reg
For DPM unbundled product:
<Install media> :\TOOLS\TFTP\IA32\RegTFTP2.reg

• For x64: From the **Start** menu, select **Run**. Enter "%WINDIR%\SysWOW64\cmd.exe" for the name of the program to execute, and then click the **OK** button. The command prompt appears. Execute the following file from the command prompt.

Tips

For SSC product: :
<Install media> :\DPM\TOOLS\TFTP\AMD64\RegTFTP2.reg
For DPM unbundled product:
<Install media> :\TOOLS\TFTP\AMD64\RegTFTP2.reg

(7) The following screen appears. Click the **Yes** button



(8) The following screen appears. Click the **OK** button.

(9) From the **Start** menu, select **Run** the Management Server. Enter "regedit" for the name of the program to execute, and then click the **OK** button.

(10) Registry Editor starts up. Please change the following registry:

Registry path
x86:HKEY_LOCAL_MACHINE\SOFTWARE\NEC\DeploymentManager
x64:HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\NEC\DeploymentManager

Value name	**Value data**
GPxeLinuxCFGDir	*DPM Server install destination folder\PXE\Images*
PxeDosFdDir	*DPM Server install destination folder\PXE\Images\DOSFD*
PxeHwDir	*DPM Server install destination folder\PXE\Images\HW*
PxeHW64Dir	*DPM Server install destination folder\PXE\Images\HW64*
PxeLinuxDir	*DPM Server install destination folder\PXE\Images\pxelinux*
PxeNbpDir	*DPM Server install destination folder\PXE\Images\NBP*
PxeNbpFdDir	*DPM Server install destination folder\PXE\Images\NBP*

Registry path
x86:HKEY_LOCAL_MACHINE\SOFTWARE\NEC\DeploymentManager\PXE\Mtftpd
x64:HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\NEC\DeploymentManager\PXE\Mtftpd

Value name	**Value data**
BASE_DIR	*DPM Server install destination folder\PXE\images*

(11) From the **Start** menu, select **Administrative Tools** -> **Services** on the Management Server**,** and then open the Service screen.

(12) Set the **Startup Type** to **Automatic** for the following service, and then reboot the machine.
DeploymentManager PXE Mtftp

Appendix F Revision History

◆ First Edition(Rev.001)(2012.08): New

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